

ANNEX A – DADES EMPRADES EN L'ANÀLISI HISTÒRICA

En aquest capítol es detallen les dades utilitzades per realitzar l'anàlisi històrica definida en el capítol de la memòria.

Taula A. 1. Dades de l'anàlisi històrica d'Espanya

LOCATION	YEAR	ACCIDENT TYPE	KILLED	INJURED
SPAIN; BILBAO; SANTURCE	1967	Explosion + Fire	1	8
SPAIN; ESCOMBRERAS	1969	Explosion + Fire	4	3
SPAIN; AVILES	1971	Explosion	6	62
TRINIDAD & TOBAGO; PORT OF SPAIN; SANTA FLORA	1973	Fire	1	
SPAIN; GALDACANO	1974	Explosion + Fire	18	35
SPAIN; GRANADA; MALAGA	1974	Gas Cloud	2	85
SPAIN; COSTA DORADA; BARCELONA	1974	Fire	1	0
SPAIN	1974	Explosion	0	0
SPAIN; BARCELONA	1976	Fire	1	4
SPAIN; ZARAGOZA	1976	Fire	8	40
SPAIN; LA CORUNA	1976	Fire	1	0
SPAIN; CUIDAD REAL	1977	Explosion + Fire	0	60
SPAIN; TARRAGONA	1978	Fire		
SPAIN; ASTURIAS; OVIEDO	1978	Explosion	7	0
SPAIN; TARRAGONA; SAN CARLOS	1978	Explosion	201	101
SPAIN; BARCELONA	1978	Explosion + Fire	4	2
SPAIN; BARCELONA	1978	Explosion	2	14
SPAIN; LEON; LEON	1979	Fire	0	0
SPAIN; VALENCIA; VALENCIA	1979	Explosion	0	0
SPAIN; LERIDA	1979	Explosion	7	7
SPAIN; ORTUELLA	1980	Explosion + Fire	51	
SPAIN; CATALONIA; BARCELONA	1981	Explosion	2	7
SPAIN; PORT OF SPAIN	1983	Explosion + Fire	1	3
SPAIN	1984	Fire	0	
SPAIN; GRANADA; GRANADA	1985	Explosion	0	61
SPAIN; ALGECIRAS	1985	Explosion + Fire		
SPAIN; FINISTERRE; AT SEA	1987	Fire	23	
SPAIN; TARRAGONA	1987	Explosion + Fire	0	0
SPAIN; CADIZ; PUERTO DE SANTA MARI	1988	Explosion + Fire	8	4
SPAIN; VITORIA	1988	Explosion	3	3
SPAIN; MORA	1989	Explosion	4	

SPAIN; SUECA	1989	Explosion	1	3
SPAIN; VIGO	1990	Explosion	1	3
SPAIN; TARRAGONA	1990	Explosion + Fire		
SPAIN; HUESCA; CANDASNOS	1990	Explosion + Fire	6	5
SPAIN; CORDOBA	1991	Explosion		
SPAIN; PAR DEL CONDADO; BOLLULOS	1992	Explosion	5	
SPAIN; TARRAGONA	1992	Explosion		8
SPAIN; TURIS	1992	Explosion	4	3
SPAIN; CORUNNA	1992	Explosion + Fire		
SPAIN; SANTA CRUZ DE TENERI	1992	Fire	1	4
SPAIN; ZARAGOZA	1992	Explosion		0
SPAIN; MIRANDE DE EBRO	1993	Explosion		1
SPAIN; TARRAGONA	1993	Fire		
SPAIN; ESCOMBRERAS	1993	Explosion + Fire		
SPAIN; BILBAO	1993	Explosion		
SPAIN; VIDRERAS	1993	Explosion + Fire	5	5
SPAIN; BARCELONA	1994	Fire	0	0
SPAIN; BARCELONA	1996	Fire	0	0
SPAIN; SANT CELONI	1996	Gas Cloud	1	77
SPAIN; PUERTOLLANO	1996	Explosion	4	4
SPAIN; BARCELONA	1996	Gas Cloud	0	0
SPAIN; ASTURIAS; HUERRES	1998	Explosion	5	1
SPAIN; VALENCIA; RAFELCOFER	2000	Explosion + Fire	6	8
SPAIN; HUELVA	2001	Explosion + Fire		
SPAIN; LAS PALMAS	2002	Explosion	2	2
SPAIN; VIZKAYA	2002	Gas Cloud	0	0
SPAIN; CARTAGENA	2002	Gas Cloud		2
SPAIN; GALICIA	2003	Explosion	0	4
SPAIN; PUERTOLLANO	2003	Fire	9	10
SPAIN; TREMENS	2004	Gas Cloud	3	0
SPAIN; BARRACAS	2004	Explosion	2	5
SPAIN; MURCIA	2004	Explosion + Fire	1	0
SPAIN; MADRID	2004	Explosion + Fire	0	0
SPAIN; ARRANZ ACINAS; BURGOS	2005	Explosion	8	4
SPAIN; TODOLELLA	2005	Gas Cloud	17	10
SPAIN; HUESCA	2005	Explosion + Fire	0	19
SPAIN	2005	Gas Cloud	4	0
SPAIN	2005	Fire	2	2

SPAIN; MADRID	2005	Gas Cloud	2	9
SPAIN; GALICIA	2006	Fire	0	0
SPAIN; ASTURIAS	2007	Fire	0	34
SPAIN; VALENCIA	2007	Fire	0	0
SPAIN; BARCELONA	2007	Explosion + Fire	1	0
SPAIN; VALLIRANA	2007	Fire	0	0
SPAIN; ALGECIRAS	2008	Gas Cloud	0	0
SPAIN; GAVA	2008	Explosion + Fire	0	28
SPAIN; CEUTA	2010	Explosion	0	10
SPAIN; MADRID	2010	Explosion + Fire	1	12
SPAIN; HUELVA	2010	Fire	2	2
SPAIN; MADRID	2011	Explosion	5	3
SPAIN; ZARAGOZA	2015	Explosion	6	5
SPAIN; IGUALADA	2015	Explosion	0	0

Taula A.2. Dades de l'anàlisi històrica d'Holanda

LOCATION	YEAR	ACCIDENT TYPE	KILLED	INJURED
NETHERLANDS; UTRECHT	1967	Explosion + Fire	2	200
NETHERLANDS; ZUID HOLLAND; ROTTERDAM	1967	Explosion + Fire		0
NETHERLANDS; ROTTERDAM	1968	Fire		
NETHERLANDS; PERNIS	1968	Explosion + Fire	2	82
NETHERLANDS; AMSTERDAM	1968	Explosion + Fire	10	
NETHERLANDS; AMSTERDAM	1969	Explosion + Fire		1
NETHERLANDS; BOTLEK	1969	Fire	0	0
NETHERLANDS; PERNIS	1969	Explosion + Fire		
NETHERLANDS; ROTTERDAM; PERNIS	1970	Explosion	1	2
NETHERLANDS; ROTTERDAM	1970	Fire	0	0
NETHERLANDS; ALPHEN A/D RIJN	1970	Fire	1	1
NETHERLANDS; ROTTERDAM	1970	Fire	0	7
NETHERLANDS; AMSTERDAM	1971	Explosion + Fire	8	21
NETHERLANDS; IJMUIDEN	1971	Explosion		4
NETHERLANDS; PERNIS	1971	Fire	0	0
NETHERLANDS; ROZENBURG	1971	Explosion + Fire		
NETHERLANDS; ROZENBURG	1971	Fire	0	0
NETHERLANDS; MUIDEN	1972	Explosion	2	16
NETHERLANDS; ZUID HOLLAND; EUROPOORT	1972	Explosion + Fire		
NETHERLANDS; PERNIS	1972	Fire		

NETHERLANDS; ROTTERDAM	1974	Fire	0	0
NETHERLANDS; ROTTERDAM	1974	Explosion		12
NETHERLANDS; EUROPOORT	1974	Fire		
NETHERLANDS; PERNIS	1974	Explosion + Fire		7
NETHERLANDS; GEERTRUIDENBERG	1974	Explosion + Fire	1	
NETHERLANDS; ROTTERDAM	1974	Explosion + Fire	0	0
NETHERLANDS; BOTLEK	1974	Fire		
NETHERLANDS;	1975	Explosion	4	35
NETHERLANDS;	1975	Explosion + Fire	0	0
NETHERLANDS; ZUID HOLLAND; ROZENBURG	1975	Fire	0	0
NETHERLANDS; BEEK	1975	Gas Cloud + Explosion	14	107
NETHERLANDS;	1976	Gas Cloud		
NETHERLANDS; CADZAND	1977	Fire	0	12
NETHERLANDS; PERNIS	1978	Fire		
NETHERLANDS;	1978	Gas Cloud		
NETHERLANDS;	1978	Gas Cloud	0	0
NETHERLANDS; NIJMEGEN	1978	Explosion + Fire	0	0
NETHERLANDS; AMSTERDAM	1979	Explosion	1	2
NETHERLANDS; BEEK	1979	Explosion		8
NETHERLANDS; ROTTERDAM	1980	Fire	0	0
NETHERLANDS; ROTTERDAM	1981	Fire	0	0
NETHERLANDS; ROTTERDAM	1981	Explosion + Fire	6	
NETHERLANDS; MUIDEN	1983	Explosion	3	
NETHERLANDS; PERNIS	1984	Fire	0	0
NETHERLANDS; ROTTERDAM	1987	Fire	0	0
NETHERLANDS; FLUSHING	1987	Fire	0	0
NETHERLANDS; ROTTERDAM	1987	Fire	0	0
NETHERLANDS; LIMBURG; GELEEN	1988	Explosion	0	0
NETHERLANDS; FLUSHING; SLOEHAVEN	1989	Explosion		
NETHERLANDS; ROTTERDAM	1989	Explosion + Fire	3	2
NETHERLANDS; ROTTERDAM	1989	Fire + Gas Cloud	0	9
NETHERLANDS; ROTTERDAM	1991	Fire	6	3
NETHERLANDS; ROTTERDAM	1991	Explosion + Fire	6	
NETHERLANDS; CULEMBORG	1991	Explosion	2	4
NETHERLANDS ANTILLES; CURACAO	1991	Explosion + Fire		
NETHERLANDS; TERNEUZEN	1992	Fire		

NETHERLANDS; AMSTERDAM	1992	Explosion + Fire	1	11
NETHERLANDS; UITHOORN	1992	Explosion + Fire	3	11
NETHERLANDS; VROMMSHOOP	1992	Fire		
NETHERLANDS; APELDOORN	1992	Explosion + Fire	1	
NETHERLANDS; TERSCHELLING	1993	Explosion + Fire	1	2
NETHERLANDS; PERNIS	1993	Fire		
NETHERLANDS; ROTTERDAM	1993	Fire		
NETHERLANDS; IJMUIDEN	1993	Explosion		
NETHERLANDS; PERNIS	1994	Fire		
NETHERLANDS; HEERLEN	1994	Fire		
NETHERLANDS; ZAAANSTAD	1994	Explosion + Fire	1	5
NETHERLANDS; ROTTERDAM	1995	Fire		
NETHERLANDS; ROTTERDAM	1996	Fire + Gas Cloud		17
NETHERLANDS; AMSTERDAM	1996	Fire		2
NETHERLANDS; PERNIS	1996	Fire		
NETHERLANDS; TERNEUZEN	1997	Fire		
NETHERLANDS; ROTTERDAM	1997	Explosion		0
NETHERLANDS; TERNEUZEN	1998	Fire		
NETHERLANDS; ROTTERDAM; PERNIS	1998	Explosion + Fire	1	14
NETHERLANDS; GELEEN	1998	Fire		
NETHERLANDS; GEELEN	1999	Explosion + Fire		
NETHERLANDS; ROTTERDAM	1999	Fire		
NETHERLANDS; ROTTERDAM	1999	Explosion		
NETHERLANDS; ENSCHEDE	2000	Explosion	20	950
NETHERLANDS; DELFZIJL; FARSUM	2001	Fire		
NETHERLANDS; PERNIS	2001	Fire		
NETHERLANDS; EINDHOVEN	2001	Explosion + Fire		11
NETHERLANDS; HOEK VAN HOLLAND	2002	Gas Cloud	0	0
NETHERLANDS; ROTTERDAM	2002	Gas Cloud	0	0
NETHERLANDS; ROTTERDAM	2002	Gas Cloud	0	12
NETHERLANDS; ROTTERDAM	2002	Explosion	1	1
NETHERLANDS; GELEEN	2003	Explosion	3	2
NETHERLANDS; ROTTERDAM	2003	Explosion	0	0
NETHERLANDS; GELEEN	2003	Explosion	3	2
NETHERLANDS; TERNEUZEN	2003	Fire	0	0
NETHERLANDS; ROTTERDAM	2004	Fire		0
NETHERLANDS; FLUSHING	2004	Fire		1

NETHERLANDS; DELFZIJL;	2004	Fire	0	0
NETHERLANDS; BORN	2004	Fire	0	0
NETHERLANDS; RAAMSDONKVEER	2006	Fire	0	0
NETHERLANDS; VELSEN- NOORD	2006	Gas Cloud	0	0
NETHERLANDS; ROTTERDAM	2006	Gas Cloud	0	1
NETHERLANDS; HOEK VAN HOLLAND	2006	Gas Cloud	0	0
NETHERLANDS; ROTTERDAM	2006	Fire + Gas Cloud	0	6
NETHERLANDS; BINNEN-MAAS	2007	Fire		
NETHERLANDS; ROTTERDAM	2008	Gas Cloud	0	0
NETHERLANDS; NIJMEGEN	2009	Explosion + Fire	1	0
NETHERLANDS; GELEEN	2010	Gas Cloud	0	0
NETHERLANDS; MOERDIJK	2011	Explosion + Fire	0	

Taula A.3. Dades de l'anàlisi històrica d'Holanda

LOCATION	YEAR	ACCIDENT TYPE	KILLED	INJURED
UK; HAMPSHIRE; FAWLEY	1962	Explosion + Fire		
UK; MIDLANDS; WEST BROMWICH	1962	Explosion + Fire		
UK;	1962	Explosion		
UK; LOTHIAN; LEITH	1964	Gas Cloud	0	0
UK; CLEVELAND; WILTON	1964	Gas Cloud		
UK; BILLINGHAM	1965	Explosion	0	2
UK; LONDON; NINE ELMS	1965	Explosion + Fire	10	20
UK; GREATER LONDON; LONDON	1965	Explosion + Fire	5	40
UK; ESSEX; CANVEY ISLAND	1965	Fire		1
UK; CHESHIRE; WIDNES	1966	Explosion	0	0
UK; CLEVELAND; BILLINGHAM	1967	Explosion + Fire	2	2
UK; GRAMPIAN; ABERDEEN	1967	Fire		
UK; GREATER LONDON; HEATHROW	1967	Fire	3	11
UK; CUMBRIA; WHITEHAVEN	1967	Explosion + Fire		2
UK; CHESHIRE; PARTINGTON	1967	Fire		
UK; STRATHCLYDE; GLASGOW	1968	Explosion	0	
UK; ESSEX; ROMFORD	1968	Fire		
UK; HUMBERSIDE; SALT END	1968	Explosion	2	13
UK; MILFORD HAVEN	1968	Fire	0	0
UK; DERBYSHIRE; BOLSOVER	1968	Explosion	1	99
UK; CLEVELAND; BILLINGHAM	1968	Explosion + Fire		

UK; CHESHIRE; ELLESMERE PORT	1968	Explosion + Fire		
UK; HAMPSHIRE; FAWLEY	1969	Fire	0	4
UK; GREATER LONDON; MILLWALL	1969	Explosion + Fire	6	
UK; ESSEX; THURROCK	1969	Explosion	0	2
UK; BUCKINGHAMSHIRE; BLETCHLEY	1969	Gas Cloud	0	0
UK; GRANGEMOUTH	1969	Fire	0	0
UK; HAMPSHIRE; FAWLEY	1969	Explosion + Fire	0	0
UK; CLEVELAND; WILTON	1969	Fire + Gas Cloud	2	23
UK; ESSEX; TILBURY	1970	Fire		
UK; HAMPSHIRE; FAWLEY	1970	Gas Cloud		
UK; SURREY; MITCHAM	1970	Explosion + Fire	0	0
UK; NORFOLK; THETFORD	1970	Fire	0	5
UK; ESSEX; SHELLHAVEN	1970	Fire	0	1
UK; SOMERSET; YEOVIL	1970	Fire		
UK; CHESHIRE; BRAMHALL	1970	Explosion + Fire	0	1
UK; CHESHIRE; CADISHEAD	1970	Fire	6	3
UK; DEVON; TURNCHAPEL	1970	Explosion + Fire		1
UK; AYRSHIRE; AYR	1970	Explosion		
UK; HUMBERSIDE; HULL	1970	Fire	2	
UK; DYFED; MILFORD HAVEN	1970	Explosion + Fire	0	0
UK; LONDON; GRAVESEND	1970	Explosion + Fire		
UK; ESSEX; CANVEY ISLAND	1970	Fire	0	
UK; LONDON	1970	Explosion + Fire		3
UK; ESSEX; CORYTON	1971	Fire	0	
UK; CLEVELAND; GRANGETOWN	1971	Fire	0	0
UK; ANGUS; DUNDEE	1971	Fire	0	0
UK; LONDON	1971	Explosion + Fire	0	2
UK; STRATHCLYDE; GLASGOW	1971	Explosion	0	8
UK; MIDDLESEX; WEST DRAYTON	1971	Fire		
UK; BALLYMENA	1971	Gas Cloud	0	0
UK; GREATER LONDON; SOUTHWARK	1971	Gas Cloud + Explosion	0	10
UK; CHESHIRE; ELLESMERE PORT	1971	Fire	0	1
UK; HUMBERSIDE; HULL	1971	Gas Cloud	0	12
UK; ESSEX; STANFORD-LE-HOPE	1971	Explosion + Fire	0	9
UK; SOUTH GLAMORGAN;	1971	Explosion + Fire		

CARDIFF				
UK; PEMBROKESHIRE; PEMBROKE	1971	Fire	0	0
UK; YORKSHIRE; KNOTTINGLEY	1971	Explosion + Fire	0	0
UK; ANTRIM; BELFAST	1971	Explosion + Fire		0
UK; LONDON	1972	Fire		3
UK; TEESSIDE; BILLINGHAM	1972	Explosion		
UK; CHESHIRE; CHESTER	1972	Fire	0	0
UK; CLEVELAND; BILLINGHAM	1972	Fire		
UK; FIFE; DUNDEE	1972	Gas Cloud	0	0
UK; LINCOLNSHIRE; GRIMSBY	1972	Explosion	1	
UK; CHESHIRE; ELLESMERE PORT	1973	Explosion + Fire	0	0
UK; ESSEX; CORYTON	1973	Fire	0	0
UK; ESSEX; STANFORD-LE- HOPE	1973	Explosion + Fire	0	0
UK; STRATHCLYDE; STEVENSTON	1973	Fire	1	42
UK; YORKSHIRE; INGLETON	1973	Fire	1	0
UK; CHESHIRE; INCE MARSHES	1973	Gas Cloud	0	0
UK; CLEVELAND; BILLINGHAM	1973	Explosion	0	4
UK; YORKSHIRE; SHEFFIELD	1973	Explosion + Fire	6	29
UK; GLAMORGAN; BAGLAN BAY	1973	Explosion + Fire		13
UK; BUCKINGHAMSHIRE; LANGLEY	1973	Fire	0	0
UK; YORKSHIRE; HUDDERSFIELD	1973	Explosion + Fire		
UK; HERTFORDSHIRE; HEMEL HEMPSTEAD	1973	Fire + Gas Cloud	0	0
UK; FIFE; GLENROTHES	1973	Gas Cloud	0	24
UK; STIRLINGSHIRE; FALKIRK	1973	Explosion + Fire	0	11
UK; ESSEX; CANVEY ISLAND	1973	Explosion		
UK; CENTRAL REGION; GRANGEMOUTH	1974	Explosion	1	
UK; LINCOLNSHIRE; FLIXBOROUGH	1974	Explosion	28	89
UK; CHESHIRE; STANLOW	1974	Fire	0	0
UK; HAMPSHIRE; HYTHE	1974	Explosion + Fire	0	
UK; CAMBRIDGESHIRE; DUXFORD	1974	Explosion + Fire		6
UK; BAGLAN BAY	1974	Explosion + Fire	0	0
UK; HUMBERSIDE; HULL	1974	Fire	0	3
UK; GRAMPIAN; ABERDEEN	1974	Fire + Gas Cloud		3

UK; COUNTY DURHAM; CONSETT	1974	Explosion + Fire	0	0
UK; GREATER MANCHESTER; MANCHESTER	1975	Fire	1	
UK; LANCASHIRE; HEYSHAM	1975	Gas Cloud		
UK; GLOUCESTER; MONKMEADOW	1975	Fire		
UK; MANCHESTER	1975	Fire	0	0
JAPAN; EUKIOKA; KOKURA	1975	Explosion		
UK; ESSEX; WALTHAM ABBEY	1975	Explosion + Fire	0	4
UK; ESSEX; CHADWELL HEATH	1975	Explosion + Fire		4
UK; ESSEX; ILFORD	1975	Explosion	1	3
UK;	1976	Fire	0	2
UK; ESSEX; SAFFRON WALDRON	1976	Fire	1	
UK; BEFORDSHIRE; WESTONING	1976	Explosion	0	3
UK; GREATER LONDON; LONDON	1976	Explosion	0	2
UK; CHESHIRE; CROFT, WARRINGTON	1976	Fire	1	
UK; NORFOLK; KINGS LYNN	1976	Explosion		
UK; YORKSHIRE; WYKE	1976	Explosion + Fire	0	2
UK; BUCKS; CHESHAM	1976	Explosion + Fire	0	5
UK; AVON; AVONMOUTH	1977	Gas Cloud	0	0
UK; CLEVELAND; HARTLEPOOL	1977	Fire	0	3
UK; CHESHIRE	1977	Explosion + Fire	0	1
UK; CHESHIRE; ELLESMERE PORT	1977	Fire	0	0
UK; STRATHCLYDE; GLASGOW	1977	Fire	0	1
UK; STRATHCLYDE; BRAEHEAD	1977	Explosion + Fire	0	13
UK; CLEVELAND	1977	Explosion	0	0
UK; CAMBRIDGESHIRE	1977	Explosion + Fire	1	
UK; W. GLAMORGAN; LLANDARCY	1977	Fire		0
UK; YORKSHIRE; HUDDERSFIELD	1977	Explosion	0	6
UK; TYNE AND WEAR; GATESHEAD	1978	Fire	0	0
UK; CLEVELAND; BILLINGHAM	1978	Fire	0	0
UK; WEST MIDLANDS; ROWLEY REGIS	1978	Gas Cloud	0	0
UK; HUMBERSIDE; IMMINGHAM	1978	Explosion		2

UK; HUMBERSIDE; SCUNTHORPE	1978	Explosion	1	7
UK; COOKLEY	1978	Gas Cloud	0	15
UK; WEST LOTHIAN; GRANGEMOUTH	1978	Gas Cloud	0	0
UK; COUNTY DURHAM; WILLINGTON	1978	Fire + Gas Cloud	0	0
UK; SUSSEX; WORTHING	1978	Explosion + Fire		
UK; MERSEYSIDE; ROYAL SEAFORD DOCK	1978	Gas Cloud	0	0
UK; GREATER LONDON; SOUTHWARK	1978	Fire	0	0
UK; SUSSEX; CRAWLEY	1978	Explosion	0	0
UK; BERKSHIRE; SLOUGH	1979	Fire + Gas Cloud	0	0
UK; TYNE & WEAR; DARLINGTON	1979	Explosion		
UK; LOTHIAN; EDINBURGH	1979	Fire	0	0
UK; HAMPSHIRE; WATERLOOVILLE	1979	Fire		58
UK; ESSEX; SHELLHAVEN	1979	Fire	0	0
UK; ESSEX; LITTLE CRANFIELD	1979	Explosion		
UK; TAYSIDE; DUNDEE	1979	Fire		
UK; WEST MIDLANDS; BIRMINGHAM	1979	Explosion	1	0
UK; HUMBERSIDE; GRIMSBY	1979	Gas Cloud	0	0
UK; CLEVELAND; REDCAR	1979	Explosion + Fire		5
UK; GREATER LONDON; HENDON	1979	Fire		
UK; HUMBERSIDE; IMMINGHAM	1979	Explosion + Fire		
UK; GREATER LONDON; GREENWICH	1979	Explosion	0	0
UK; CLEVELAND; BILLINGHAM	1979	Explosion	0	0
UK; STAFFORDSHIRE; KEELE	1979	Fire	0	0
UK; DERBYSHIRE; BOLSOVER	1979	Gas Cloud		
UK; LANCASHIRE; LOWER PENWORTHAM	1979	Explosion	2	7
UK; CLEVELAND; BILLINGHAM	1979	Fire		1
UK; CHESHIRE; WARRINGTON	1979	Explosion		1
UK; CLEVELAND; BILLINGHAM	1979	Fire	0	0
UK; CLEVELAND; WILTON	1979	Fire		1
UK; WEST MIDLANDS; WOLVERHAMPTON	1979	Explosion	3	1
UK; DERBYSHIRE; ALFRETON	1979	Fire	0	0
UK; WEST SUSSEX	1979	Fire		

UK; CLEVELAND; BILLINGHAM	1979	Fire	0	0
UK; CHESHIRE; WIDNES	1980	Fire		
UK; SOUTH HUMBERSIDE; IMMINGHAM	1980	Explosion + Fire	3	4
UK; SOMERSET; BRIDGEWATER	1980	Gas Cloud	0	0
UK; WORCESTERSHIRE; KIDDERMINSTER	1980	Explosion + Fire	2	3
UK; WEST YORKSHIRE; LEEDS	1980	Fire + Gas Cloud	0	25
UK; MERSEYSIDE; ST.HELENS	1980	Gas Cloud	0	12
UK; HUMBERSIDE; PATRINGTON	1980	Fire	1	0
UK; KENT; KEMSLEY MILL	1980	Explosion		2
UK; CLEVELAND; BILLINGHAM	1980	Fire	0	0
UK; CHESHIRE; WARRINGTON	1980	Explosion		1
UK; CLEVELAND; WILTON	1980	Gas Cloud	0	0
UK; MERSEYSIDE; LIVERPOOL	1980	Gas Cloud		9
UK; MERSEYSIDE; LIVERPOOL	1980	Gas Cloud	0	25
UK; LANCASHIRE; BLACKBURN	1980	Fire	0	0
UK; CLEVELAND; MIDDLESBOROUGH	1980	Fire		
UK; GLOUCESTERSHIRE; GLOUCESTER	1980	Gas Cloud	0	16
UK; CLEVELAND; MIDDLESBROUGH	1980	Fire + Gas Cloud	0	0
UK; LANCASHIRE; PRESTON	1980	Explosion + Fire	0	0
UK; GREATER LONDON; HANGER LANE	1980	Fire	0	0
UK; STAFFORDSHIRE; STOKE ON TRENT	1980	Explosion + Fire	0	0
UK; SHETLANDS; SULLOM VOE	1980	Explosion	0	5
UK; ESSEX; BARKING	1980	Explosion + Fire	0	0
UK; AVON; AVONMOUTH	1980	Fire	0	42
UK; COUNTY DURHAM; AYCLIFFE	1980	Fire		
UK; BUCKINGHAMSHIRE; SLOUGH	1980	Gas Cloud	0	0
UK; MIDDLESEX; WEALDSTONE	1980	Gas Cloud	0	2
UK; WEST LOTHIAN; GRANGEMOUTH	1980	Explosion		
UK; GREATER LONDON; MERTON	1980	Fire		
UK; HERTFORDSHIRE; HATFIELD	1980	Explosion	1	2
UK; SURREY; WALLINGTON	1981	Fire + Gas Cloud	0	25

UK; CENTRAL SCOTLAND; GRANGEMOUTH	1981	Explosion + Fire	0	1
UK; LINCOLNSHIRE; LOUTH	1981	Fire	0	0
UK; SUSSEX; SHOREHAM	1981	Gas Cloud	0	0
UK; YORKSHIRE; CATTERICK BRIDGE	1981	Gas Cloud	0	0
UK; COUNTY DURHAM; BIRTLEY	1981	Fire		
UK; CHESHIRE; STALYBRIDGE	1981	Explosion	1	1
UK; YORKSHIRE; LINDHOLME	1981	Fire		
UK; DYFED; MILFORD HAVEN	1981	Explosion + Fire	1	6
UK; WEST GLAMORGAN; LLANDARCY	1981	Explosion + Fire	0	0
UK; MERSEYSIDE; BURTONWOOD	1981	Explosion + Fire		
UK; YORKSHIRE; YORK	1981	Fire		1
UK; YORKSHIRE; HOLMFIRTH	1981	Gas Cloud	0	9
UK; GREATER MANCHESTER; SALFORD	1982	Explosion + Fire	0	61
UK; ESSEX; CORRINGHAM	1982	Fire		12
UK; GREATER MANCHESTER; STALYBRIDGE	1982	Explosion + Fire	0	0
UK; CHESHIRE; ELLESMERE PORT	1982	Fire	0	0
UK; OXFORDSHIRE; BANBURY	1982	Gas Cloud	0	1
UK; SURREY; KINGSTON UPON THAMES	1982	Fire		1
UK; DERBYSHIRE; STAVELEY	1982	Explosion		
UK; YORKSHIRE; WOODKIRK	1982	Fire	0	
UK; DUNBAR	1982	Explosion + Fire	0	27
UK; TYNE AND WEAR	1982	Explosion + Fire	0	0
UK; SUFFOLK; IPSWICH	1982	Explosion + Fire	0	0
UK; DUMFRIES; PORTPATRICK	1982	Gas Cloud	0	0
UK; CHESHIRE; STANLOW	1983	Fire		
UK; CHESHIRE; ACTON GRANGE	1983	Fire	0	
UK; WEST YORKSHIRE; OSSETT	1983	Explosion + Fire		
UK; CHESHIRE; WIDNES	1983	Explosion	1	
UK; GLOUCESTERSHIRE; DURSLEY	1983	Explosion + Fire	0	5
UK; DYFED; MILFORD HAVEN	1983	Fire	0	0
UK; CHESHIRE; MACCLESFIELD	1983	Fire	0	7
UK; NOTTINGHAMSHIRE; SOUTHWELL	1983	Fire		

UK; CLEVELAND; BILLINGHAM	1983	Fire	0	11
UK; WILTSHIRE; SWINDON	1983	Explosion + Fire	0	0
UK; ANGLESEY; GWYNEDD	1983	Explosion + Fire		5
UK; HUMBERSIDE; HULL	1984	Explosion + Fire	0	2
UK; CHESHIRE; WARRINGTON	1984	Explosion + Fire	0	4
UK; CLEVELAND; BILLINGHAM	1984	Fire		11
UK; WEST YORKSHIRE; SLAITHWAITE	1984	Gas Cloud	0	29
UK; NOTTINGHAMSHIRE; NOTTINGHAM	1984	Fire	0	0
UK; WEST GLAMORGAN; BAGLAN BAY	1984	Fire	0	0
UK; KENT; ASHFORD	1984	Explosion + Fire		
UK; FLINT; FLINT	1984	Explosion	0	0
UK; CLWYD; DEESIDE	1984	Fire	0	15
UK; LEICESTERSHIRE; HINCKLEY	1984	Gas Cloud		43
UK; CHESHIRE; PENKETH	1984	Fire + Gas Cloud	0	0
UK; BUCKINGHAMSHIRE; IVER HEATH	1984	Explosion + Fire	0	2
UK; WEST GLAMORGAN; PONTARDAWE	1984	Explosion + Fire	0	0
UK; NOTTINGHAMSHIRE; BEESTON	1984	Fire	0	0
UK; GREATER MANCHESTER; SALFORD	1984	Fire	3	76
UK; WEST YORKSHIRE; SUMMIT TUNNEL	1984	Explosion + Fire	0	0
UK; MERSEYSIDE; LIVERPOOL	1984	Explosion		
UK; LANCASHIRE; THORNTON	1984	Explosion		
UK; SOUTH YORKSHIRE; SHEFFIELD	1984	Fire		20
UK; GLAMORGAN; BAGLAN BAY	1984	Fire	0	0
UK; LEICESTERSHIRE; DESFORD	1984	Explosion	0	5
UK; CHESHIRE	1984	Explosion + Fire		
UK; STAFFORDSHIRE; FOUR ASHES	1984	Explosion + Fire		5
UK; CUMBRIA; CARLISLE	1984	Explosion	0	0
UK; GREATER MANCHESTER; CLAYTON	1984	Explosion + Fire	0	0
UK; CENTRAL; GRANGEMOUTH	1984	Fire		
UK; MERSEYSIDE; BROMBOROUGH	1984	Fire		2
UK; CLEVELAND	1984	Explosion + Fire	0	0

UK; DYFED; SAUNDERSFOOT	1984	Explosion	0	1
UK; DYFED; MILFORD HAVEN	1984	Explosion	4	17
UK; WEST GLAMORGAN; PORT TALBOT	1984	Explosion + Fire	0	0
UK; LANCASHIRE; ABBEYSTED	1984	Explosion	16	28
UK; GREATER LONDON; LONDON	1984	Fire	0	0
UK; DORSET; LYME REGIS	1984	Explosion	0	0
UK; WEST YORKSHIRE; PONTEFRACT	1985	Gas Cloud	0	0
UK; HERTFORDSHIRE; HERTFORD	1985	Fire		
UK; LEICESTERSHIRE; LEICESTER	1985	Fire	0	1
UK; GREATER MANCHESTER; MIDDLETON	1985	Gas Cloud	0	30
UK; GREATER MANCHESTER; OLDHAM	1985	Fire	0	0
UK; WORCESTERSHIRE; KIDDERMINSTER	1985	Explosion + Fire	0	3
UK; NORTH YORKSHIRE; MONK FRYSTON	1985	Fire + Gas Cloud	0	20
UK; WEST MIDLANDS; COVENTRY	1985	Fire	0	0
UK; YORKSHIRE; DONCASTER	1985	Fire	0	0
UK; YORKSHIRE; YORK	1985	Gas Cloud		5
UK; WEST YORKSHIRE; BRADFORD	1985	Gas Cloud	0	29
UK; GREATER LONDON; PUTNEY	1985	Explosion	8	7
UK; NORFOLK; THETFORD	1985	Gas Cloud	0	91
UK; FIFE; KINGLASSIE	1985	Explosion + Fire	1	2
UK; WARWICKSHIRE; CANLEY	1985	Explosion		3
UK; GLOUCESTERSHIRE; GLOUCESTER	1985	Gas Cloud	0	0
UK; GREATER MANCHESTER; BOLTON	1985	Explosion	1	4
UK; CHESHIRE; WIDNES	1985	Gas Cloud	0	
UK; SHROPSHIRE; WEM	1985	Fire	0	0
UK; GREATER MANCHESTER; TRAFFORD PARK	1985	Fire	0	
UK; WEST GLAMORGAN; PONTYPRIDD	1985	Fire	0	0
UK; MIDDLESBROUGH; SEAL SAND	1985	Gas Cloud	0	0
UK; HAMPSHIRE; FAWLEY	1985	Fire	0	0
UK; CHESHIRE; RUNCORN	1985	Explosion	1	11

UK; CLEVELAND; BILLINGHAM	1985	Gas Cloud	0	0
UK; CLEVELAND; WILTON	1985	Gas Cloud	0	0
UK; ISLE OF WIGHT; YARMOUTH	1985	Gas Cloud	0	3
UK; DENBIGH; WREXHAM	1985	Gas Cloud		25
UK; CHESHIRE; WARRINGTON	1985	Explosion + Fire	0	2
UK; DEVON; PLYMOUTH	1985	Gas Cloud	2	1
UK; MERSEYSIDE; LIVERPOOL	1985	Fire		7
UK; KENT; CHATHAM	1985	Gas Cloud		15
UK; WEST MIDLANDS; OLDBURY	1985	Fire	0	0
UK; CLEVELAND; MIDDLESBROUGH	1985	Fire		
UK; WEST YORKSHIRE; HUDDERSFIELD	1986	Gas Cloud	0	0
UK; CHESHIRE; ELLESMERE PORT	1986	Fire	0	0
UK; SOUTH HUMBERSIDE; KILLINGHOLME	1986	Gas Cloud	0	0
UK; MEMBURY SERVICES	1986	Fire		
UK; SELBY	1986	Fire		
UK; HERTFORDSHIRE; LETCHWORTH	1986	Fire		
UK; DERBYSHIRE; KILLAMARSH	1986	Explosion + Fire	0	0
UK; MIDLANDS; BIRMINGHAM	1986	Fire		
UK; YORKSHIRE; SHEFFIELD	1986	Explosion + Fire	0	0
UK; NORTHAMPTONSHIRE; BRAUNSTON	1986	Fire		
UK; STRATHCLYDE; DEACONSBANK	1986	Explosion	2	9
UK; GREATER MANCHESTER; HEYWOOD	1986	Fire	0	2
UK; MERSEYSIDE; BROMBOROUGH	1986	Explosion		6
UK; CLEVELAND; MIDDLESBROUGH	1986	Fire	0	0
UK; YORKSHIRE; CASTLEFORD	1986	Gas Cloud	0	4
UK; HUMBERSIDE; IMMINGHAM	1986	Fire	1	0
UK; DERBYSHIRE; BOLSOVER	1986	Fire	0	2
UK; GREATER MANCHESTER; CLAYTON	1986	Gas Cloud	0	10
UK; AVON; BRISTOL	1986	Explosion + Fire	0	0
UK; WILTSHIRE; SALISBURY	1986	Explosion	2	1
UK; COUNTY DURHAM; NEWTON AYCLIFFE	1986	Gas Cloud		

UK; SURREY; REIGATE HILL	1986	Gas Cloud	0	12
UK; CENTRAL; GRANGEMOUTH	1986	Gas Cloud	0	0
UK; WARWICKSHIRE; BIRMINGHAM	1986	Gas Cloud + Explosion	0	17
UK; MERSEYSIDE; ST HELENS	1986	Gas Cloud	0	3
UK; YORKSHIRE; SHEFFIELD	1986	Gas Cloud	0	0
UK; WEST SUSSEX; EAST GRINSTEAD	1986	Fire	0	3
UK; KENT; YALDING	1986	Gas Cloud	0	4
UK; DURHAM; PETERLEE	1986	Explosion + Fire	1	2
UK; DERBYSHIRE; DERBY	1986	Fire	0	0
UK; KENT; BELVEDERE	1986	Gas Cloud	0	6
UK; WARWICKSHIRE; WARWICK	1986	Fire	0	0
UK; SOUTH GLAMORGAN; BARRY	1986	Explosion	0	0
UK; TEESSIDE; BILLINGHAM	1986	Fire + Gas Cloud	1	17
UK; DERBYSHIRE; BOLLINGTON	1986	Fire + Gas Cloud	0	0
UK; TYNESIDE; SUNDERLAND	1986	Gas Cloud	0	3
UK; WEST YORKSHIRE; OSSETT	1986	Fire	0	0
UK; CAMBRIDGE; HAUXTON	1987	Explosion + Fire	0	1
UK; NEWCASTLE; NEWBURN	1987	Gas Cloud	0	0
UK; SUSSEX; WESTHAM	1987	Gas Cloud		
UK; LANCASHIRE; BARTON	1987	Fire	0	
UK; CENTRAL REGION; GRANGEMOUTH	1987	Explosion + Fire	1	8
UK; WORCESTERSHIRE; EVESHAM	1987	Gas Cloud	0	0
UK; LANCASHIRE; TRAFFORD PARK	1987	Explosion	0	4
UK; MERSEYSIDE; LIVERPOOL	1987	Gas Cloud	0	0
UK; HAMPSHIRE; SOUTHAMPTON	1987	Gas Cloud	0	117
UK; MIDDLESEX; HOUNSLOW	1987	Gas Cloud		
UK; GLOUCESTERSHIRE; STONEHOUSE	1987	Gas Cloud		
UK; KENT; SIDCUP	1987	Fire		
UK; SURREY; CROYDON	1987	Explosion		
UK; ENGLISH CHANNEL	1987	Fire	0	0
UK; WILTSHIRE; CHIPPENHAM	1987	Gas Cloud		1
UK; HAMPSHIRE; SOUTHAMPTON	1987	Gas Cloud	0	22
UK; CLEVELAND; GREATHAM	1987	Gas Cloud		

UK; YORKSHIRE; ORGREAVE	1987	Gas Cloud	0	0
UK; HUMBERSIDE; SCUNTHORPE	1987	Gas Cloud + Explosion	0	0
UK; WEST MIDLANDS; WOLVERHAMPTON	1987	Gas Cloud	0	38
UK; GRAMPIAN; TULLOS	1987	Gas Cloud	0	
UK; CLWYD	1987	Fire	0	
UK; YORKSHIRE; WAKEFIELD	1987	Gas Cloud	0	5
UK; DYFED; PEMBROKE	1987	Fire		
UK; PETERLEE	1987	Gas Cloud	0	0
UK; CLEVELAND; SEAL SANDS	1987	Gas Cloud	0	0
UK; ESSEX; CORRINGHAM	1987	Fire	0	0
UK; DERBYSHIRE; BARLBOROUGH	1987	Fire	0	0
UK; WILTSHIRE; FISHERTON DE LA MERE	1987	Fire	0	1
UK; DEVON; EXETER	1987	Gas Cloud		
UK; YORKSHIRE; BROTHERTON	1987	Gas Cloud		
UK; GREATER MANCHESTER; NORTHENDEN	1987	Fire + Gas Cloud	0	
UK; WEST YORKSHIRE; HUDDERSFIELD	1987	Gas Cloud	0	0
UK; MERSEYSIDE; WALLASEY	1987	Explosion	0	0
UK; SCOTLAND; GRANGEMOUTH	1987	Explosion	2	2
UK; DERBYSHIRE; DERBY	1987	Gas Cloud		13
UK; LANCASHIRE; TRAFFORD PARK	1987	Gas Cloud	0	0
UK; CHESHIRE; WARRINGTON	1987	Gas Cloud + Explosion	0	2
UK; TEESSIDE; MIDDLESBROUGH	1987	Gas Cloud	0	11
UK; LANCASHIRE; OAKENCLOUGH	1988	Gas Cloud	0	19
UK; BRIMSDOWN	1988	Fire	0	5
UK; DEVON; CATTEDOWN	1988	Fire		
UK; HUMBERSIDE; HULL	1988	Fire		
UK; DYFED; MILFORD HAVEN	1988	Fire	0	0
UK; LANCASHIRE; LEIGH	1988	Fire		
UK; HUMBERSIDE; EAST COWICK	1988	Gas Cloud		18
UK; WEST MIDLANDS; WEST BROMWICH	1988	Gas Cloud	0	22
UK; CHESHIRE; MARPLE	1988	Fire + Gas Cloud	0	2
UK; BERKSHIRE; CADMORE END	1988	Fire		15

UK; PETERBOROUGH	1988	Gas Cloud	0	0
UK; CHESHIRE; ELLESMERE PORT	1988	Explosion + Fire	0	0
UK; STAFFORDSHIRE; SHENSTONE	1988	Gas Cloud	0	1
UK; HAMPSHIRE; ANDOVER	1988	Explosion + Fire		1
UK; CAMBRIDGE; ST NEOTS	1988	Gas Cloud		
UK; STAFFORDSHIRE; WESTON ON TRENT	1988	Fire	1	
UK; CLEVELAND; GREATHAM	1988	Gas Cloud		
UK; BRISTOL; AVONMOUTH	1988	Explosion + Fire		2
UK; CIRENCESTER	1988	Gas Cloud	0	0
UK; HUMBERSIDE; HULL	1988	Fire	1	6
UK; PETERBOROUGH	1988	Explosion + Fire	1	2
UK; DORSET; POOLE	1988	Explosion + Fire	0	0
UK; LANCASHIRE; BOLTON	1988	Explosion + Fire	0	0
UK; DERBYSHIRE; GLOSSOP	1988	Explosion	1	0
UK; CAMBRIDGESHIRE; KINGS RIPTON	1988	Explosion	0	0
UK; YORKSHIRE; SHEFFIELD	1988	Gas Cloud	0	0
UK; ESSEX; DANBURY	1988	Explosion + Fire		5
UK; SURREY; WALTON	1988	Explosion	0	1
UK; BRADFORD; LOW MOOR	1988	Fire	0	0
UK; GWYNEDD; PENRHYNDEUDRAETH	1988	Explosion	2	8
UK; COULSDON	1989	Gas Cloud	0	2
UK; YORKSHIRE; MICKLEFIELD	1989	Fire + Gas Cloud	1	0
UK; YORKSHIRE; LEEDS	1989	Gas Cloud	0	0
UK; LANCASHIRE; SKELMERSDALE	1989	Fire	0	16
UK; TEESSIDE; GREATHAM	1989	Gas Cloud	1	1
UK; NORFOLK; NORWICH	1989	Gas Cloud	0	0
UK; HUMBERSIDE; GRIMSBY	1989	Gas Cloud	0	
UK; LANCASHIRE; DARWEN	1989	Explosion + Fire	0	0
UK; TEESSIDE; BILLINGHAM	1989	Gas Cloud	2	
UK; GREATER MANCHESTER; MANCHESTER	1989	Fire	0	35
UK; NORTHAMPTON; CORBY	1989	Fire	0	1
UK; WEST MIDLANDS; OLDBURY	1989	Explosion + Fire	0	0
UK; ESSEX; BASILDON	1989	Gas Cloud		
UK; CLEVELAND; GREATHAM	1989	Gas Cloud		
UK; SHROPSHIRE; TELFORD	1989	Gas Cloud		1

UK; ESSEX; DEDHAM	1989	Explosion		
UK; POWYS; HEYOP	1989	Fire		
UK; CHESHIRE; WARRINGTON	1989	Fire		
UK; HERTFORDSHIRE; WALTHAM CROSS	1989	Gas Cloud		101
UK; CHESHIRE; HELSBY	1989	Gas Cloud	0	14
UK; SOMERSET; WELLS	1989	Gas Cloud		8
UK; MERSEYSIDE; AUGHTON	1989	Fire + Gas Cloud		12
UK; LEICESTERSHIRE; MARKET HARBOROUGH	1989	Explosion		6
UK; CHESHIRE; CHESTER	1989	Fire		
UK; GREATER MANCHESTER; PARTINGTON	1989	Explosion		2
UK; MERSEYSIDE; RAINHILL	1989	Gas Cloud		
UK; HUMBERSIDE; IMMINGHAM DOCKS	1989	Fire		
UK; SURREY; GUILDFORD	1989	Fire		5
UK; WARWICKSHIRE; RUGBY	1989	Gas Cloud	0	0
UK; CHESHIRE; RUNCORN	1989	Gas Cloud	0	0
UK; LANCASHIRE; OLDHAM	1989	Gas Cloud		
UK; LANCASHIRE; ROCHDALE	1989	Explosion + Fire		3
UK; ESSEX; WALTHAM ABBEY	1989	Gas Cloud	0	
UK; NORTH HUMBERSIDE; SCUNTHORPE	1989	Fire		
UK; GLOUCESTERSHIRE; DAGLINGWORTH	1989	Explosion + Fire	0	
UK; CHESHIRE; SANDBACH	1989	Explosion + Fire	0	1
UK; KENT; DARTFORD MARSHES	1989	Explosion		
UK; WEST MIDLANDS; SPARKBROOK	1989	Fire + Gas Cloud		14
UK; NOTTINGHAMSHIRE; ATTENBOROUGH	1989	Gas Cloud		
UK; NORFOLK; WYMONDHAMS	1989	Fire		3
UK; CHESHIRE; RUNCORN	1989	Fire + Gas Cloud	0	3
UK; SHETLAND; SULLOM VOE	1989	Fire	0	0
UK; CAMBRIDGE; PETERBOROUGH	1989	Explosion	1	80
UK; WEST MIDLANDS; BROWNHILLS	1989	Gas Cloud	0	
UK; HUMBERSIDE; HUMBER ESTUARY	1989	Fire	0	0
UK; CAMBRIDGESHIRE; CAMBRIDGE	1989	Gas Cloud	0	15
UK; KENT; DARTFORD	1989	Gas Cloud + Explosion		

UK; HUMBERSIDE; HUMBER ESTUARY	1989	Fire	0	0
UK; BERKSHIRE; THATCHAM	1989	Fire		
UK; CHESHIRE; ELWORTH	1989	Explosion + Fire	0	0
UK; WALES; NEW TREDEGAR	1989	Fire	0	100
UK; SURREY; SALFORDS	1989	Explosion		
UK; CHESHIRE; RUNCORN	1989	Gas Cloud		9
UK; BERKSHIRE; CHIPPENHAM	1990	Fire		
UK; WEST YORKSHIRE; HAVERCROFT	1990	Explosion		2
UK; LANCASHIRE; BOLTON	1990	Fire		
UK; HERTFORDSHIRE; HAMBLE	1990	Fire		
UK; HERTFORDSHIRE; WATFORD	1990	Gas Cloud		
UK; CHESHIRE; ELLESMERE PORT	1990	Explosion + Fire		
UK; AVON; PORTISHEAD	1990	Fire + Gas Cloud		
UK; LANCASHIRE; SKELMERSDALE	1990	Fire + Gas Cloud		9
UK; NORFOLK; NORWICH	1990	Gas Cloud		1
UK; GREATER MANCHESTER; CARRINGTON	1990	Fire		
UK; CAMBRIDGESHIRE; PETERBOROUGH	1990	Explosion	1	
UK; WEST MIDLANDS; BIRMINGHAM	1990	Fire	1	
UK; TYNE & WEAR; GATESHEAD	1990	Fire		
UK; SOUTH WALES; MILFORD HAVEN	1990	Explosion + Fire		1
UK; CHESHIRE; WARRINGTON	1990	Gas Cloud		
UK; WEST MIDLANDS; BRIERLEY HILL	1990	Fire		
UK; ESSEX; BARKING	1990	Fire		2
UK; NORTH YORKSHIRE; SEATON ROSS	1990	Explosion		3
UK; AVON; MIDSOMER NORTON	1990	Explosion + Fire		
UK; LANCASHIRE; LATHOM	1990	Fire		
UK; KENT; DARTFORD	1990	Explosion		2
UK; KENT; DARTFORD	1990	Explosion		2
UK; WORCESTER	1990	Fire		
UK; GREATER MANCHESTER; MANCHESTER	1990	Gas Cloud		7
UK; SOMERSET; BRIDGEWATER	1990	Fire		

UK; CUMBRIA; STAINMORE	1990	Fire		
UK; SUSSEX; ASHINGTON	1990	Fire		
UK; HUMBERSIDE; SCUNTHORPE	1990	Fire		
UK; CHESHIRE; CHEADLE	1990	Explosion		
UK; EASTLEIGH	1990	Fire		0
UK; SAFFRON WALDEN	1990	Fire		
UK; GLOUCESTERSHIRE; STAVERTON	1990	Fire		
UK; MERSEYSIDE; HEYWOOD	1990	Explosion		
UK; WEST MIDLANDS; OLDBURY	1990	Fire		5
UK; DERBYSHIRE; ILKESTON	1990	Fire		
UK; FIFE; GLENROTHES	1990	Gas Cloud		
UK; FIFE; GLENROTHES	1990	Fire		
UK; MERSEYSIDE; LIVERPOOL	1990	Gas Cloud		
UK; CAMBRIDGESHIRE; FULBOURN	1990	Fire		
UK; ESSEX; CHELMSFORD	1990	Fire + Gas Cloud		22
UK; SOMERSET; HINCKLEY	1990	Fire		
UK; CHESHIRE; STANLOW	1990	Gas Cloud	0	0
UK; NORTHUMBERLAND; MORPETH	1990	Fire + Gas Cloud		
UK; STRATHCLYDE; BIGGAR	1990	Fire		
UK; GLOUCESTERSHIRE; CHELTENHAM	1990	Fire		
UK; CHESHIRE; ELLESMERE PORT	1990	Explosion + Fire	1	5
UK; CAMBRIDGESHIRE; GIRTON	1990	Gas Cloud	0	11
UK; STAFFORDSHIRE; BURTON-ON-TRENT	1990	Fire		
UK; ESSEX; WALTHAMSTOW	1990	Fire + Gas Cloud		
UK; DORSET; POOLE	1990	Gas Cloud		
UK; LANCASHIRE; BLACKBURN	1990	Fire		
UK; DERBYSHIRE; BELPER	1990	Explosion + Fire		
UK; YORKSHIRE; YORK	1990	Gas Cloud		35
UK; WEST MIDLANDS; BIRMINGHAM	1990	Fire + Gas Cloud		61
UK; CUMBRIA; WHITEHAVEN	1990	Explosion + Fire		
UK; WEST YORKSHIRE; HUDDERSFIELD	1990	Gas Cloud		
UK; GREATER MANCHESTER; STOCKPORT	1990	Explosion + Fire	0	4
UK; WEST MIDLANDS;	1990	Fire		4

WEDNESFIELD				
UK; NORFOLK; GREAT YARMOUTH	1990	Gas Cloud		36
UK; CAMBRIDGESHIRE; WISBECH	1990	Gas Cloud		
UK; GREATER MANCHESTER; SADDLEWORTH	1990	Explosion	0	0
UK; OXFORDSHIRE; COOKLEY GREEN	1990	Gas Cloud	0	0
UK; NOTTINGHAMSHIRE; WORKSOP	1990	Explosion + Fire		
UK; SOMERSET; YEOVIL	1991	Fire	2	2
UK; ESSEX; CORYTON	1991	Fire		
UK; GREATER MANCHESTER; WORSLEY	1991	Explosion + Fire		
UK; DERBYSHIRE; SPONDON	1991	Explosion		11
UK; HAMPSHIRE; SOUTHAMPTON	1991	Fire	2	3
UK; YORKSHIRE; ROYSTON	1991	Explosion		
UK; CLEVELAND; BILLINGHAM	1991	Gas Cloud		
UK; KENT; LOWER HALSTON	1991	Explosion		
UK; GREATER MANCHESTER; MANCHESTER	1991	Fire + Gas Cloud		
UK; MERSEYSIDE; BEBINGTON	1991	Fire		
UK; GREATER LONDON; WILLESSEN	1991	Explosion		3
UK; GLOUCESTERSHIRE; NORTHWAY	1991	Fire		
UK; TORBAY	1991	Fire		
UK; SCOTLAND; FOCHABERS	1991	Fire		
UK; MERSEYSIDE; BROMBOROUGH	1991	Fire		
UK; ST PETER PORT	1991	Explosion		1
UK; GREATER MANCHESTER; STRETFORD	1991	Fire		
UK; FAWLEY	1991	Explosion	1	1
UK; SUSSEX; ALDINGBOURNE	1991	Fire		
UK; WALES; FLINT	1991	Explosion + Fire		
UK; NORTHUMBERLAND; BERWICK	1991	Fire		13
UK; YORKSHIRE; LEEDS	1991	Explosion		
UK; WALES; SOUTH GLAMORGAN	1991	Explosion		
UK; AVON; SHIREHAMPTON	1991	Gas Cloud		
UK; SCOTLAND; ARDEER	1991	Gas Cloud		4
UK; GREATER MANCHESTER; SALE	1991	Fire		

UK; RIVER TEES	1991	Fire		
UK; IMMINGHAM	1991	Fire		
UK; GREATER MANCHESTER; TRAFFORD PARK	1991	Fire		
UK; LANCASHIRE; LITTLEBOROUGH	1991	Gas Cloud		
UK; GREATER MANCHESTER; WYTHENSHAW	1991	Fire		
UK; GREATER MANCHESTER; WEST GORTON	1991	Fire		0
UK; WARWICKSHIRE; LEAMINGTON	1991	Gas Cloud		
UK; COUNTY DURHAM; DURHAM	1991	Fire		5
UK; GLOUCESTERSHIRE; MITCHELDEAN	1991	Explosion + Fire		
UK; NOTTINGHAMSHIRE; MANSFIELD-WOODHOUSE	1991	Fire + Gas Cloud		
UK; WOLVERHAMPTON	1991	Gas Cloud		0
UK; NORFOLK; THETFORD	1991	Fire		42
UK; KENT; OFF KENT COAST	1991	Explosion	2	1
UK; EAST SUSSEX; RYE HARBOUR	1991	Gas Cloud		
UK; NORFOLK; COLTISHALL	1991	Gas Cloud		
UK; HERTFORDSHIRE; ROYSTON	1991	Explosion + Fire		1
UK; SCOTLAND; PAISLEY	1991	Explosion		5
UK; MERSEYSIDE; HALEWOOD	1991	Gas Cloud		30
UK; YORKSHIRE; SHEFFIELD	1991	Fire		15
UK; YORKSHIRE; LEEDS	1991	Fire		
UK; IMMINGHAM	1991	Fire		126
UK; NOTTINGHAMSHIRE; BASFORD	1991	Explosion + Fire		2
UK; MIDLANDS; MINWORTH	1991	Explosion + Fire		2
UK; SOMERSET; TAUNTON	1991	Explosion + Fire		0
UK; CHESHIRE; STOCKPORT	1991	Fire		
UK; YORKSHIRE; LEEDS	1991	Fire		
UK; BURY	1991	Explosion		
UK; GREATER MANCHESTER; SALFORD	1991	Fire		
UK; SOUTHAMPTON	1991	Fire		
UK; COUNTY DURHAM; CROOK	1991	Fire		
UK; DERBYSHIRE; COTON IN THE ELMS	1991	Explosion		
UK; LANCASHIRE; MILNROW	1992	Explosion		

UK; CHESHIRE; LOSTOCK	1992	Fire + Gas Cloud		
UK; HUMBERSIDE; IMMINGHAM	1992	Explosion		
UK; SHETLAND ISLANDS; SULLOM VOE	1992	Fire		
UK; LEICESTERSHIRE; LEICESTER	1992	Fire		
UK; HUMBERSIDE; STALLINGBOROUGH	1992	Fire		
UK; BIDEFORD	1992	Fire		
UK; NOTTINGHAMSHIRE; BESTWOOD	1992	Explosion + Fire		
UK; MIDLANDS; DUDLEY	1992	Explosion + Fire		
UK; DRAYCOTT	1992	Fire		
UK; TYNE & WEAR; SUNDERLAND	1992	Fire		3
UK; GREATER MANCHESTER; HULME	1992	Explosion		
UK; GLOUCESTERSHIRE; LINDERFORD	1992	Explosion + Fire		
UK; MIDLANDS; CASTLE BROMWICH	1992	Fire		
UK; MERSEYSIDE; BOOTLE	1992	Explosion + Fire		
UK; PLYMOUTH	1992	Fire		
UK; WILTSHIRE; CHIPPENHAM	1992	Fire		
UK; BERKSHIRE; WOKINGHAM	1992	Fire		
UK; CHESHIRE; STANLOW	1992	Gas Cloud		
UK; AVON; REDFIELD	1992	Fire		
UK; WEST MIDLANDS; OLDBURY	1992	Fire		
UK; TEESIDE; WILTON	1992	Explosion		0
UK; DYFED; PEMBROKE	1992	Explosion + Fire		18
UK; DORSET; CHICKERELL	1992	Explosion		
UK; OXFORDSHIRE; BANBURY	1992	Fire		0
UK; SCOTLAND; THORNTREESIDE	1992	Explosion		2
UK; SUNDERLAND; CROOK HALL	1992	Explosion		
UK; NOTTINGHAMSHIRE; LONG EATON	1992	Explosion + Fire		
UK; ESSEX; BASILDON	1992	Explosion		
UK; MIDLANDS; NECHELLS	1992	Fire		
UK; LANCASHIRE; LITTLE HULTON	1992	Explosion + Fire		
UK; STIRLINGSHIRE; GRANGEMOUTH	1992	Explosion + Fire	1	3
UK; YORKSHIRE; HEATON	1992	Fire		

UK; SUSSEX; SHOREHAM	1992	Fire		
UK; GUERNSEY	1992	Explosion + Fire		
UK; SCOTLAND; ST FERGUS	1992	Explosion		1
UK; KILNHURST	1992	Fire		
UK; LONDON; WIMBLEDON	1992	Fire		
UK; YORKSHIRE; CASTLEFORD	1992	Explosion + Fire	5	
UK; HUMBERSIDE; GRIMSBY	1992	Explosion		
UK; WORCESTERSHIRE; HEREFORD	1992	Fire	1	
UK; YORKSHIRE; FERRYBRIDGE	1992	Fire		11
UK; LANCASHIRE; WIGAN	1992	Fire		
UK; YORKSHIRE; BRADFORD	1992	Fire		
UK; AVON; DOWNHAM	1992	Fire		
UK; NOTTINGHAMSHIRE; CLIFTON	1992	Explosion		
UK; EAST ANGLIA; NORWICH	1992	Fire		
UK; KENT; CHATHAM	1992	Fire		
UK; CLWYD; DEESIDE	1992	Explosion	1	2
UK; SOUTHAMPTON	1992	Explosion + Fire		2
UK; HUMBERSIDE; OFF SPURN POINT	1993	Gas Cloud		1
UK; Ayrshire; STRAITON	1993	Fire		
UK; NORTHAMPTONSHIRE	1993	Fire		
UK; HAMPSHIRE; CHANDLER'S FORD	1993	Fire		
UK; TYNE & WEAR; ELSWICK	1993	Fire		6
UK; STAFFORDSHIRE; MOIRA	1993	Fire		
UK; DERBYSHIRE; HORSLEY WOODHOUSE	1993	Explosion		2
UK; ESSEX; SAFFRON WALDEN	1993	Fire		
UK; GLOUCESTERSHIRE; NAILSWORTH	1993	Gas Cloud		
UK; LANCASHIRE; BLACKPOOL	1993	Fire		
UK; DERBYSHIRE; DERBY	1993	Fire		
UK; SHROPSHIRE; WELLINGTON	1993	Explosion + Fire		0
UK; WEST MIDLANDS; WITTON	1993	Fire		
UK; NORTHUMBERLAND; HEXHAM	1993	Explosion		2
UK; HAMPSHIRE; SOUTHAMPTON	1993	Explosion + Fire		
UK; YORKSHIRE; LEEDS	1993	Explosion		

UK; DEVON; CHERITON FITZPANE	1993	Fire		
UK; NORTH LONDON; KILBURN	1993	Fire		6
UK; CORNWALL; BUDE	1993	Fire		
UK; NOTTINGHAMSHIRE; NEWARK	1993	Fire	1	1
UK; CLEVELAND; SEAL SANDS	1993	Explosion		
UK; SOUTH YORKSHIRE; BARNLEY	1993	Explosion		1
UK; CHESHIRE; WARRINGTON	1993	Explosion + Fire		
UK; ESSEX; FAWLEY	1993	Explosion		
UK; CHESHIRE; RUNCORN	1993	Explosion + Fire	1	
UK; YORKSHIRE; WOOLEY EDGE	1993	Explosion + Fire		
UK; MERSEYSIDE; BROMBOROUGH	1993	Gas Cloud		3
UK; SCOTLAND; GRANGEMOUTH	1993	Fire		
UK; MIDLANDS; WITTON	1993	Fire		3
UK; LINCOLNSHIRE; WHAPLODE	1993	Fire		2
UK; DEVON; PLYMOUTH	1993	Fire		
UK; WALES; PYLE	1993	Fire	1	
UK; CAMBRIDGESHIRE; WITTERING	1993	Gas Cloud		
UK; SHROPSHIRE; MUCH WENLOCK	1993	Explosion + Fire	1	2
UK; CLEVELAND; SEAL SANDS	1993	Explosion + Fire		
UK; MERSEYSIDE; BROMBOROUGH	1993	Explosion + Fire		1
UK; TYNE & WEAR; GATESHEAD	1993	Explosion + Fire		
UK; NORFOLK; SWARDESTON	1993	Explosion		5
UK; WORCESTERSHIRE; EVESHAM	1993	Fire		
UK; TYNE & WEAR; GATESHEAD	1993	Explosion + Fire		0
UK; CLEVELAND; WILTON	1994	Gas Cloud		
UK; DEVON; EXETER	1994	Explosion + Fire		
UK; GREATER MANCHESTER; WIGAN	1994	Gas Cloud		55
UK; MERSEYSIDE; EASTHAM	1994	Gas Cloud		
UK; CAMBRIDGESHIRE; CAMBRIDGE	1994	Fire		
UK; MANCHESTER; CARRINGTON	1994	Fire		
UK; ESSEX; SHOE BURY	1994	Fire		17

UK; CENTRAL REGION; GRANGEMOUTH	1994	Fire		0
UK; CAMBRIDGESHIRE; RAMSEY MERESIDE	1994	Fire		
UK; DEVON; IPPLEPEN	1994	Explosion + Fire		0
UK; GLOUCESTERSHIRE; GLOUCESTER	1994	Explosion		
UK; DEVON; DUNKESWELL	1994	Gas Cloud		
UK; GREATER MANCHESTER; CARRINGTON	1994	Explosion + Fire		0
UK; SHROPSHIRE; PRESTON UPON THE	1994	Fire		
UK; AVON; KEYNSHAM	1994	Explosion + Fire		4
UK; HAMPSHIRE; PORTSMOUTH	1994	Explosion + Fire		
UK; WEST YORKSHIRE; LOW MOOR	1994	Explosion		
UK; DYFED; MILFORD HAVEN	1994	Explosion + Fire		26
UK; DYFED; MILFORD HAVEN	1994	Fire		0
UK; HAMPSHIRE; FAREHAM	1994	Explosion + Fire		
UK; WEST MIDLANDS; SMETHWICK	1994	Gas Cloud		1
UK; GREATER LONDON; UPMINSTER	1994	Explosion		
UK; LANCASHIRE; LEIGH	1994	Fire		1
UK; WEST MIDLANDS; WITTON	1994	Fire		
UK; CHESHIRE; ELLESMERE PORT	1994	Fire		18
UK; WARWICKSHIRE; HEATH END	1994	Fire		
UK; SUFFOLK; MARTLESHAM	1994	Explosion + Fire		6
UK; GREATER MANCHESTER; DROYLES DEN	1994	Explosion		3
UK; SUFFOLK; HAVERHILL	1994	Explosion + Fire		1
UK; WEST MIDLANDS; OLDBURY	1994	Gas Cloud		
UK; WEST MIDLANDS; DARLASTON	1994	Fire		
UK; WEST YORKSHIRE; LEEDS	1994	Fire		0
UK; SURREY; HASLEMERE	1994	Explosion		1
UK; NORTH YORKSHIRE; NEWBY WISKE	1994	Gas Cloud		
UK; CHESHIRE; OFFERTON	1994	Explosion + Fire		1
UK; AVON; BRISTOL	1994	Explosion		4
UK; AVON; AVONMOUTH	1994	Fire	1	
UK; DEVON; EXETER	1994	Explosion + Fire		1
UK; HEREFORD &	1994	Explosion		

WORCESTER; KIDDERMINSTER				
UK; TAYSIDE; DUNDEE	1994	Explosion		1
UK; CORNWALL; LITTLE TRETHER	1994	Explosion		2
UK; ESSEX; CORYTON	1994	Fire		1
UK; DEVON; TOTNES	1994	Fire		4
UK; CUMBRIA; CRACKENTHORPE	1994	Explosion + Fire	1	1
UK; TYNE & WEAR; BEDLINGTON	1994	Fire		
UK; GREATER LONDON; ROTHERHITHE	1994	Fire		
UK; GLOUCESTERSHIRE; GLOUCESTER	1994	Explosion		
UK; BORDERS	1994	Fire		10
UK; WEST GLAMORGAN; SWANSEA	1994	Fire		0
UK; DEVON; EXETER	1994	Fire		0
UK; SOUTH HUMBERSIDE; IMMINGHAM	1994	Explosion + Fire		2
UK; STIRLINGSHIRE; GRANGEMOUTH	1994	Fire		
UK; WEST YORKSHIRE; MORLEY	1994	Fire		
UK; CLEVELAND; GREATHAM	1995	Gas Cloud		0
UK; CHESHIRE; HEATON CHAPEL	1995	Fire		4
UK; NORTH YORKSHIRE; BENTHAM	1995	Gas Cloud		7
UK; NORTH YORKSHIRE; ASKAM RICHARD	1995	Explosion		0
UK; WEST MIDLANDS; PERRY BAR	1995	Fire		
UK; HUMBERSIDE; SOUTH KILLINGHOLME	1995	Fire		1
UK; KENT; ASHFORD	1995	Fire		3
UK; WEST YORKSHIRE; HUDDERSFIELD	1995	Gas Cloud		
UK; AVON; CLEVEDON	1995	Explosion + Fire	1	1
UK; WEST GLAMORGAN; SWANSEA	1995	Explosion		
UK; WEST YORKSHIRE; BATLEY	1995	Gas Cloud		30
UK; OXFORDSHIRE; ABINGDON	1995	Fire		
UK; WORCESTERSHIRE; DROITWICH	1995	Explosion		
UK; OXFORDSHIRE; EWELME	1995	Fire		

UK; WEST MIDLANDS; DROITWICH	1995	Fire		
UK; CHESHIRE; WIDNES	1995	Fire		1
UK; LEICESTERSHIRE; QUENIBOROUGH	1995	Explosion + Fire		
UK; CLEVELAND; PORT CLARENCE	1995	Fire		
UK; CLEVELAND; SOUTH BANK	1995	Fire		13
UK; SUFFOLK; FELIXSTOWE	1995	Gas Cloud		
UK; GEORGIA; SAVANNAH	1995	Fire		21
UK; GREATER MANCHESTER; ECCLES	1995	Fire		
UK; WARWICKSHIRE; WYKEN	1995	Fire		
UK; NORFOLK; LITTLE MASSINGHAM	1995	Fire		
UK; CENTRAL REGION; GRANGEMOUTH	1995	Explosion		1
UK; HERTFORDSHIRE; KNEBWORTH	1995	Gas Cloud		
UK; LANCASHIRE; PENDELTON	1995	Fire		
UK; CAMBRIDGESHIRE; ST NEOTS	1995	Fire		
UK; SOMERSET; M5 MOTORWAY	1995	Fire		
UK; CLEVELAND; WILTON	1995	Fire		
UK; KENT; RAMSGATE	1995	Gas Cloud		8
UK; CLEVELAND	1995	Gas Cloud		
UK; LANCASHIRE; PRESTON	1995	Gas Cloud + Explosion		62
UK; ESSEX; DAGENHAM	1995	Gas Cloud		0
UK; COUNTY CORK; CORK	1996	Fire		4
UK; TAYSIDE; DUNDEE	1996	Fire		0
UK; AVON; AVONMOUTH	1996	Explosion + Fire		11
UK; WEST YORKSHIRE; HARDEN	1996	Gas Cloud		16
UK; HARLESTON	1996	Fire		
UK; CHESHIRE; NEWTON-LE- WILLOWS	1996	Fire		
UK; NORTH YORKSHIRE; RIPLEY	1996	Gas Cloud		1
UK; HUMBERSIDE; HULL	1996	Fire		
UK; NORTH YORKSHIRE; AISKEW	1996	Fire		1
UK; SURREY; REIGATE	1996	Gas Cloud		
UK; CENTRAL REGION; GRANGEMOUTH	1996	Fire		

UK; WEST YORKSHIRE; LEEDS	1996	Explosion		
UK; WEST YORKSHIRE; SCAMMONDEN	1996	Explosion + Fire		1
UK; WEST YORKSHIRE; BRADFORD	1996	Fire		7
UK; DEVON; PLYMOUTH	1996	Fire		
UK; CHESHIRE; RUNCORN	1996	Fire		
UK; WEST MIDLANDS; OLDBURY	1996	Fire		
UK; HUMBERSIDE; WELTON	1996	Fire		
UK; LANCASHIRE; LANCASTER	1996	Explosion + Fire		1
UK; WEST SUSSEX; HORSHAM	1996	Fire		
UK; WEST MIDLANDS; DUDLEY	1996	Fire		7
UK; WEST MIDLANDS; NECHELLS	1996	Explosion + Fire		
UK; WEST YORKSHIRE; KNOTTINGLEY	1996	Gas Cloud		7
UK; WEST MIDLANDS; WILLENHALL	1996	Fire		
UK; WEST YORKSHIRE; CASTLEFORD	1996	Explosion + Fire		
UK; WEST YORKSHIRE; DEIGHTON	1996	Gas Cloud		
UK; WEST MIDLANDS; WOLVERHAMPTON	1996	Fire		2
UK; WEST MIDLANDS; LADYWOOD	1996	Fire		
UK; NORFOLK; WYMONDHAM	1996	Fire		2
UK; NORFOLK; NEATISHEAD	1996	Fire		4
UK; GWENT; PONTYPOOL	1996	Fire		
UK; CLEVELAND; SEAL SANDS	1996	Fire	0	0
UK; SOUTH YORKSHIRE; SHEFFIELD	1996	Gas Cloud		
UK; CLEVELAND; GREATHAM	1996	Gas Cloud		0
UK; WEST YORKSHIRE; DEIGHTON	1996	Explosion		0
UK; GRAMPIAN; PORTLETHEN	1997	Explosion		
UK; GREATER MANCHESTER; ROCHDALE	1997	Fire		
UK; WEST YORKSHIRE; HUNSLET	1997	Gas Cloud		11
UK; CENTRAL; GRANGEMOUTH	1997	Fire		3
UK; WEST MIDLANDS; BIRMINGHAM	1997	Fire		
UK; WEST MIDLANDS; EDGBASTON	1997	Fire		
UK; WEST YORKSHIRE;	1997	Gas Cloud		

SEACROFT				
UK; TYNE AND WEAR; SOUTH SHIELDS	1997	Gas Cloud		
UK; HUMBERSIDE; GOOLE	1997	Explosion		
UK; HUMBERSIDE; BURSTWICK	1997	Explosion		1
UK; CLEVELAND; SEAL SANDS	1997	Fire		2
UK; WEST MIDLANDS; BIRMINGHAM	1997	Fire		
UK; BUCKINGHAMSHIRE; BLETCHLEY	1997	Explosion + Fire	1	4
UK; CHESHIRE; RUNCORN	1997	Explosion		9
UK; WEST MIDLANDS; BLOXWICH	1997	Fire		
UK; BERKSHIRE; SLOUGH	1997	Explosion + Fire		4
UK; GREATER LONDON; MORDEN	1997	Explosion + Fire	1	1
UK; WEST MIDLANDS; ROWLEY REGIS	1997	Fire		
UK; CHESHIRE; RUNCORN	1997	Fire		
UK; KENT; GILLINGHAM	1997	Fire		
UK; NORTHAMPTONSHIRE; NORTHAMPTON	1997	Gas Cloud		
UK; TYNE AND WEAR; GATESHEAD	1997	Gas Cloud		
UK; BERKSHIRE; SLOUGH	1997	Gas Cloud		0
UK; SHROPSHIRE; CLAVERLEY	1997	Fire		
UK; WEST MIDLANDS; WEDNESBURY	1997	Fire		
UK; KINNEIL	1997	Fire		
UK; WARWICKSHIRE; EXHALL	1997	Fire		
UK; GWYNEDD; AMLWCH	1997	Gas Cloud		7
UK; DERBYSHIRE; SPONDON	1997	Fire		
UK; WEST MIDLANDS; TIVIDALE	1997	Fire		14
UK; STRATHCLYDE; PORT GLASGOW	1997	Explosion		1
UK; WEST MIDLANDS; WEST BROMWICH	1997	Fire		1
UK; SOUTH YORKSHIRE; MELTHAM	1997	Gas Cloud		
UK; KENT; SHEERNESS	1997	Fire		
UK; WEST MIDLANDS; WILLENHALL	1998	Gas Cloud		4
UK; STAFFORDSHIRE; LEEK	1998	Fire		
UK; WEST YORKSHIRE; GOMERSAL	1998	Gas Cloud		3

UK; WEST MIDLANDS; BLOXWICH	1998	Gas Cloud		
UK; AVON; HALLEN	1998	Gas Cloud		
UK; NORTHAMPTONSHIRE; WELLINGBOROUGH	1998	Gas Cloud		
UK; WEST MIDLANDS; BIRMINGHAM	1998	Explosion		
UK; CLEVELAND; WILTON	1998	Gas Cloud		0
UK; DEVON; ROBOROUGH	1998	Gas Cloud		
UK; AVON; LONGWELL GREEN	1998	Gas Cloud		
UK;	1998	Fire		1
UK; CUMBRIA; GREYSTOKE	1998	Fire		
UK; ESSEX; CORYTON	1998	Fire		
UK; ESSEX; STANFORD-LE- HOPE	1998	Fire		0
UK; ESSEX; SOUTHEND	1998	Gas Cloud		6
UK; NOTTINGHAMSHIRE; ILKESTON	1998	Fire		
UK; WEST MIDLANDS; OLDBURY	1998	Fire		
UK; TEESIDE; BILLINGHAM	1998	Gas Cloud		
UK; COUNTY DURHAM; SPENNYMOOR	1998	Gas Cloud		0
UK; DEVON; UFFCULME	1998	Explosion + Fire		3
UK; GWENT; NEWPORT	1998	Gas Cloud		0
UK; LANARKSHIRE; LAW	1998	Fire		3
UK; LEICESTERSHIRE; ASHBY- DE-LA-ZOUCH	1998	Gas Cloud		1
UK; GREATER LONDON; KINGS CROSS	1998	Explosion + Fire		
UK; WEST YORKSHIRE; WORTLEY	1998	Gas Cloud		1
UK; GREATER MANCHESTER; RADCLIFFE	1998	Gas Cloud		0
UK; CHANNEL ISLANDS; JERSEY	1998	Fire		
UK; CHESHIRE; NORTHWICH	1998	Gas Cloud		2
UK; NORTHAMPTONSHIRE; CRICK	1998	Fire		2
UK; DEVON; KINGSBRIDGE	1998	Gas Cloud		11
UK; LANCASHIRE; KIRKHAM	1998	Gas Cloud		
UK; NORTH YORKSHIRE; YORK	1998	Gas Cloud		31
UK; LANCASHIRE; GREENHALGE	1998	Gas Cloud		3
UK; WEST MIDLANDS; TIPTON	1998	Gas Cloud		2
UK; HUMBERSIDE;	1998	Gas Cloud		

SCUNTHORPE				
UK; WEST MIDLANDS; BIRMINGHAM	1998	Gas Cloud		
UK; STOCKTON	1998	Gas Cloud		
UK; WEST MIDLANDS; WOLVERHAMPTON	1998	Explosion + Fire		0
UK; LANCASHIRE; OSWALDTWISTLE	1998	Gas Cloud		
UK; TYNE & WEAR; JARROW	1998	Gas Cloud		
UK; LOTHIAN; EDINBURGH	1998	Explosion + Fire		1
UK; DERBYSHIRE; KILLAMARSH	1998	Gas Cloud		
UK; DERBYSHIRE; LITTLE EATON	1998	Gas Cloud		0
UK; NORTHAMPTONSHIRE; GEDDINGTON	1998	Fire		0
UK; WEST MIDLANDS; WEDNESBURY	1998	Fire		
UK; TAYSIDE; DUNDEE	1998	Explosion		1
UK; SHROPSHIRE; CROSS HOUSES	1998	Fire		1
UK; SUFFOLK; IPSWICH	1998	Explosion		1
UK; DEVON; EXMOUTH	1998	Fire		
UK; WEST MIDLANDS; OLDBURY	1998	Fire		0
UK; LINCOLNSHIRE; GAINSBOROUGH	1998	Explosion		18
UK; CLEVELAND; GREATHAM	1998	Gas Cloud		0
UK; MERSEYSIDE; EASTHAM	1998	Gas Cloud		23
UK; STRATHCLYDE; EAST KILBRIDE	1998	Explosion		14
UK; STAFFORDSHIRE; LONGPORT	1998	Fire		0
UK; CHESHIRE; ELLESMERE PORT	1998	Fire		0
UK; DERBYSHIRE; KILLAMARSH	1998	Gas Cloud		
UK; SOUTH GLAMORGAN; BARRY	1998	Gas Cloud		5
UK; CAMBRIDGESHIRE; PETERBOROUGH	1998	Fire		1
UK; NORTHUMBERLAND; WIDDRINGTON	1998	Fire		
UK; GREATER MANCHESTER; RADCLIFFE	1998	Gas Cloud		
UK; WEST MIDLANDS; WEST BROMWICH	1998	Fire		
UK; CHESHIRE; LYMM	1998	Fire		
UK; LEICESTERSHIRE;	1998	Fire		4

LEICESTER				
UK; CLEVELAND; TEESSIDE	1998	Gas Cloud + Explosion		2
UK; WEST MIDLANDS; WEDNESBURY	1998	Fire		
UK; FIFE; LESLIE	1998	Gas Cloud		1
UK; WEST GLAMORGAN; SWANSEA VALLEY	1998	Fire		
UK; WEST YORKSHIRE; HUDDERSFIELD	1998	Gas Cloud		
UK; DERBYSHIRE; KILLAMARSH	1998	Gas Cloud		
UK; STAFFORDSHIRE; FAZELEY	1998	Fire		
UK; OXFORDSHIRE; WANTAGE	1999	Fire		
UK; WEST MIDLANDS; WEST BROMWICH	1999	Gas Cloud	2	
UK; NORTHAMPTONSHIRE; BRACKLEY	1999	Gas Cloud		
UK; LANCASHIRE; CHURCH	1999	Gas Cloud		0
UK; LOTHIAN; EDINBURGH	1999	Fire		8
UK; SOUTH YORKSHIRE; SHEFFIELD	1999	Gas Cloud		101
UK; AVON; BRISTOL	1999	Gas Cloud		
UK; CLEVELAND; WILTON	1999	Gas Cloud		
UK; CHESHIRE; ELLESMERE PORT	1999	Fire + Gas Cloud		
UK; WEST MIDLANDS; WALSALL	1999	Fire		0
UK; GREATER LONDON; BATTERSEA	1999	Gas Cloud		6
UK; CHESHIRE; SUTTON WEAVER	1999	Gas Cloud		2
UK; ENGLISH CHANNEL	1999	Fire		
UK; CAMBRIDGESHIRE; GREAT WRATTING	1999	Gas Cloud		0
UK; NORFOLK; WATTON	1999	Gas Cloud		0
UK; DERBYSHIRE; SHEEPBRIDGE	1999	Fire		
UK; WEST MIDLANDS; WOLVERHAMPTON	1999	Explosion		2
UK; WEST MIDLANDS; BIRMINGHAM	1999	Fire		2
UK; LANCASHIRE; CLAPHAM	1999	Fire		
UK; GWENT; USK	1999	Fire		
UK; LINCOLNSHIRE; SPALDING	1999	Explosion + Fire		
UK; WEST YORKSHIRE; HUDDERSFIELD	1999	Gas Cloud		

UK; JERSEY; ST HELIER	1999	Gas Cloud		0
UK; TYNE AND WEAR; WALLSEND	1999	Explosion		1
UK; CLEVELAND; WILTON	1999	Fire		2
UK; DEVON; PAIGNTON	1999	Fire		
UK; WEST MIDLANDS; WITTON	1999	Fire		
UK; STAFFORDSHIRE; BURSLEM	1999	Fire		
UK; MERSEYSIDE; HALEWOOD	1999	Gas Cloud		
UK; FLINTSHIRE; MOLD	1999	Gas Cloud		
UK; NORTHAMPTONSHIRE; NORTHAMPTON	1999	Gas Cloud		0
UK; NORFOLK; BACTON	1999	Gas Cloud		13
UK; STRATHCLYDE; PAISLEY	1999	Fire		2
UK; WEST MIDLANDS; BIRMINGHAM	1999	Explosion + Fire		1
UK; HUMBERSIDE; SCUNTHORPE	1999	Gas Cloud		
UK; LINCOLNSHIRE; FRISKNEY	1999	Gas Cloud		1
UK; CHESHIRE; CHESTER	1999	Fire		
UK; WILTSHIRE; SWINDON	1999	Explosion + Fire		3
UK; STRATHCLYDE; IRVINE	1999	Explosion	0	0
UK; CHANNEL ISLANDS; JERSEY	1999	Gas Cloud		
UK; WEST MIDLANDS; WEST BROMWICH	1999	Explosion + Fire		
UK; GUERNSEY	1999	Gas Cloud		
UK; LANCASHIRE; FRECKLETON	1999	Fire		
UK; DERBYSHIRE; KILLAMARSH	1999	Gas Cloud		2
UK; CHESHIRE; WHALEY BRIDGE	1999	Gas Cloud		1
UK; DERBYSHIRE; KILLAMARSH	1999	Fire + Gas Cloud		2
UK; HUMBERSIDE; DRIFFIELD	1999	Fire		1
UK; LINCOLNSHIRE; STALLINGBOROUGH	1999	Gas Cloud		
UK; DEVON; KINGSBRIDGE	1999	Gas Cloud		31
UK; NORTHAMPTONSHIRE; NORTHAMPTON	1999	Gas Cloud		1
UK; BERKSHIRE; THATCHAM	2000	Fire		
UK; ESSEX; WITHAM	2000	Gas Cloud		
UK; WEST MIDLANDS; WEST BROMWICH	2000	Fire		
UK; TEESIDE; BILLINGHAM	2000	Gas Cloud		0

UK; DURHAM; HARTLEPOOL	2000	Explosion		0
UK; STAFFORDSHIRE; STOKE-ON-TRENT	2000	Fire		
UK; WEST SUSSEX; WORTHING	2000	Gas Cloud		2
UK; FALKIRK; GRANGEMOUTH	2000	Fire		0
UK; WARWICKSHIRE; NUNEATON	2000	Fire		2
UK; GLOUCESTERSHIRE; SANDHURST	2000	Explosion + Fire		
UK; TEESIDE; BILLINGHAM	2000	Fire		
UK; CUMBRIA; WORKINGTON	2000	Fire		
UK; MANCHESTER	2000	Fire		
UK; SHETLAND; SULLOM VOE	2000	Fire		0
UK; DERBYSHIRE; DERBY	2000	Gas Cloud		5
UK; CHESHIRE; RUNCORN	2000	Fire		
UK; WEST YORKSHIRE; CASTLEFORD	2000	Gas Cloud		
UK; WILTSHIRE; LONGLEAT	2000	Fire		2
UK; CHESHIRE; WIDNES	2000	Fire		
UK; SOUTH YORKSHIRE; THORNE	2000	Explosion	1	2
UK; WEST YORKSHIRE; BRADFORD	2000	Gas Cloud		
UK; KENT; QUEENBOROUGH	2000	Gas Cloud		0
UK; HAMPSHIRE; FARLINGTON	2000	Fire		
UK; TEESIDE; WILTON	2000	Fire		1
UK; CHESHIRE; WIDNES	2000	Gas Cloud		4
UK; SOUTH YORKSHIRE; BRAMLEY	2000	Gas Cloud		
UK; CLEVELAND; HARTLEPOOL	2000	Gas Cloud		0
UK; MERSEYSIDE; ST HELENS	2000	Fire		
UK; NOTTINGHAMSHIRE; MANSFIELD	2000	Explosion		2
UK; HUMBERSIDE; BURSTWICK	2000	Gas Cloud		4
UK; EAST SUSSEX; HASTINGS	2000	Gas Cloud		2
UK; STAFFORDSHIRE; STAFFORD	2000	Fire		
UK; WORCESTERSHIRE; STRENSHAM SERVICES	2000	Gas Cloud		
UK; WEST MIDLANDS; TIPTON	2000	Fire		
UK; CAMBRIDGESHIRE; FOWLMERE	2000	Fire		1
UK; HAMPSHIRE; BASINGSTOKE	2000	Explosion + Fire	1	1

UK; TYNE AND WEAR; BIRTLEY	2000	Gas Cloud + Explosion	1	
UK; CUMBRIA; WHITEHAVEN	2000	Fire		0
UK; WEST MIDLANDS; OLDBURY	2000	Gas Cloud		0
UK; LANCASHIRE; HEYSHAM	2000	Fire + Gas Cloud		1
UK; MERSEYSIDE; ST HELENS	2000	Fire		
UK; KENT; ROMNEY	2000	Gas Cloud		
UK; LANCASHIRE; HOLME SLACK	2000	Fire		0
UK; GREATER LONDON; ENFIELD	2000	Fire		
UK; MERSEYSIDE; NEWTON- LE-WILLOWS	2000	Fire		
UK; SOMERSET; OVER STOWEY	2001	Explosion		
UK; PEMBROKESHIRE; PEMBROKE DOCK	2001	Fire		0
UK; OXFORDSHIRE; BERINSFIELD	2001	Fire		26
UK; SUFFOLK; HAVERHILL	2001	Explosion + Fire		2
UK; NOTTINGHAMSHIRE; RIDDINGS	2001	Fire		
UK; WARWICKSHIRE; NUNEATON	2001	Gas Cloud		
UK; WEST MIDLANDS; HANDSWORTH	2001	Gas Cloud		
UK; MERSEYSIDE; KIRKBY	2001	Gas Cloud		0
UK; DORSET; FERNDOWN	2001	Fire		
UK; ESSEX; SOUTHEND	2001	Fire		
UK; DURHAM; CONSETT	2001	Gas Cloud + Explosion		
UK; GWENT; NEWPORT	2001	Gas Cloud	1	3
UK; WORCESTERSHIRE; WORCESTER	2001	Gas Cloud		2
UK; WARWICKSHIRE; RUGBY	2001	Fire		0
UK; CHESHIRE; HOLMES CHAPEL	2001	Gas Cloud		14
UK; NORFOLK; KING'S LYNN	2001	Gas Cloud		
UK; LANARKSHIRE; COATBRIDGE	2001	Gas Cloud		30
UK; WEST MIDLANDS; COVENTRY	2001	Explosion		3
UK; MIDLOTHIAN; LOANHEAD	2001	Gas Cloud		
UK; MERSEYSIDE; ST HELENS	2001	Fire		1
UK; MERSEYSIDE; SEACOMBE	2001	Explosion + Fire		2
UK; MIDLOTHIAN; EDINBURGH	2001	Gas Cloud		2

UK; HAMPSHIRE; DEANLANE END	2001	Fire		
UK; STRATHCLYDE; CLYDEBANK	2001	Explosion + Fire		10
UK; CHESHIRE; WIDNES	2001	Fire		0
UK; STAFFORDSHIRE; TAMWORTH	2001	Gas Cloud		35
UK; CHESHIRE; WIDNES	2001	Fire		0
UK; AVON; AVONMOUTH	2001	Gas Cloud		
UK; WEST SUSSEX; CRAWLEY	2001	Explosion + Fire		0
UK; LANCASHIRE; LANCASTER	2001	Gas Cloud		
UK; CAMBRIDGESHIRE; BARWAY	2001	Gas Cloud		4
UK; GREATER MANCHESTER; IRLAM	2001	Gas Cloud		7
UK; HAMPSHIRE; HAYLING ISLAND	2001	Fire		
UK; LANCASHIRE; HAPTON	2001	Fire		
UK; TAYSIDE; DUNDEE	2001	Fire		
UK; GLOUCESTERSHIRE; CHELTENHAM	2001	Gas Cloud		
UK; CHESHIRE; STANLOW	2001	Fire		
UK; WEST MIDLANDS; HALESOWEN	2001	Fire		0
UK; TAYSIDE; DUNDEE	2001	Fire		0
UK; NORTHAMPTONSHIRE; CORBY	2001	Gas Cloud		
UK; LINCOLNSHIRE; SOUTH KILLINGHOLME	2001	Explosion		2
UK; BORDERS; WALKERBURN	2001	Fire		1
UK; LANCASHIRE; MORECAMBE	2002	Gas Cloud		15
UK; GREATER MANCHESTER; BREDBURY	2002	Fire		
UK; CAMBRIDGESHIRE; GRAVELEY	2002	Fire		
UK; GREATER MANCHESTER; MANCHESTER	2002	Fire		
UK; WEST MIDLANDS; WEST BROMWICH	2002	Fire		
UK; GREATER MANCHESTER; ANCOATS	2002	Fire		
UK; WEST MIDLANDS; BIRMINGHAM	2002	Fire		
UK; NOTTINGHAMSHIRE; WEST BRIDGFORD	2002	Explosion	1	6
UK; WORCESTERSHIRE; REDDITCH	2002	Explosion		
UK; GLASGOW;	2002	Explosion		1

STRATHCLYDE				
UK; MERSEYSIDE; PORT SUNLIGHT	2002	Fire		0
UK; CHESHIRE; RUNCORN	2002	Gas Cloud		10
UK; TYNESIDE; NORTH SHIELDS	2002	Explosion + Fire		0
UK; WEST MIDLANDS; GREAT BARR	2002	Gas Cloud		0
UK; STIRLINGSHIRE; GRANGEMOUTH	2002	Gas Cloud		
UK; WEST GLAMORGAN; RESOLVEN	2002	Gas Cloud		9
UK; HUMBERSIDE; KILLINGHOLME	2003	Fire		3
UK; GLOUCESTERSHIRE; CINDERFORD	2003	Fire		
UK; SCOTLAND; DRUM	2003	Explosion	3	
UK; DYFED; MILFORD HAVEN	2003	Fire		2
UK; LIVERPOOL; NETHERLEY	2003	Explosion + Fire		
UK; DERBYSHIRE; DERBY	2003	Explosion + Fire		
UK; EAST YORKSHIRE; BEVERLEY	2003	Fire		
UK; MERSEYSIDE; BROMBOROUGH	2004	Fire		0
UK; SCOTLAND; GRANGEMOUTH	2004	Explosion		1
UK; EAST SUSSEX; BATTLE	2004	Explosion		1
UK; MERSEYSIDE; KNOWSLEY	2004	Fire		
UK; CHESHIRE; RUNCORN	2004	Gas Cloud		2
UK; OXFORDSHIRE; ABINGDON	2004	Explosion + Fire		
UK; STAFFORDSHIRE; STOKE ON TRENT	2004	Explosion		1
UK; LANCASHIRE; BAMBER BRIDGE	2004	Fire		
UK; LANCASHIRE; MORECAMBE	2004	Fire		
UK; LINCOLNSHIRE; IMMINGHAM	2004	Fire		
UK; DEVON; BIDEFORD	2005	Fire		
UK; DERBYSHIRE; DERBY	2005	Explosion		0
UK; HERTFORDSHIRE; ST ALBANS	2005	Fire		0
UK; SURREY; STAINES	2005	Explosion + Fire		
UK; WARWICKSHIRE; RUGBY	2005	Fire		0
UK; DEVON; KINGSBRIDGE	2005	Explosion + Fire		1
UK; WALES; PEMBROKE	2005	Fire		0

UK; BERKSHIRE; NR NEWBURY	2005	Fire		0
UK; NORTH YORKSHIRE; SELBY	2005	Fire		0
UK; CHESHIRE; WARRINGTON	2005	Fire		1
UK; BUNCEFIELD	2005	Explosion + Fire	0	10
UK; NORTHERN IRELAND; BELFAST	2005	Fire		
UK; LIVERPOOL	2005	Explosion + Fire	1	3
UK; SHEFFIELD	2006	Fire	0	0
UK;	2006	Explosion + Fire	0	2
UK; FLAMBOROUGH	2006	Explosion + Fire	0	2
UK; LEEDS	2006	Fire	0	0
UK; GLASGOW	2006	Explosion + Fire	0	4
UK; BILLINGHAM	2006	Explosion	0	2
UK; CHELTENHAM	2006	Fire	0	0
UK; LEWES	2006	Explosion	2	12
UK; BILLINGHAM	2007	Gas Cloud	0	37
UK; PRESTON	2007	Fire	0	0
UK; CREWE	2007	Fire	0	0
UK; CORYTON	2007	Explosion + Fire	0	0
UK; LONDON	2007	Fire	0	0
UK;	2008	Fire	0	0
UK;	2008	Explosion	0	0
UK; WHITTLESEY	2008	Fire	0	0
UK; DRAYCOTT	2008	Explosion + Fire	0	0
UK; SHOEBURYNESSE	2008	Explosion	0	0
UK; NORTH KILLINGHOLME	2010	Explosion + Fire	1	2
UK; IRLAM	2010	Explosion	0	15
UK; NEWTON ACLYFFE	2010	Fire	0	0
UK; PEMBROKE	2011	Explosion	4	1
UK; BOAT OF GARTEN	2011	Fire	0	0
UK; ARDROSSAN	2011	Fire	0	0
UK;	2012	Gas Cloud + Explosion	0	0

ANNEX B – DIRECTRIU SEVESO II

En aquest capítol s'inclou la normativa europea 96/82/EC també coneguda com a Seveso II.

14. 1. 97

EN

Official Journal of the European Communities

No L 10/13

COUNCIL DIRECTIVE 96/82/EC

of 9 December 1996

on the control of major-accident hazards involving dangerous substances

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 130s (1) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

Having regard to the opinion of the Economic and Social Committee ⁽²⁾,

Acting in accordance with the procedure laid down in Article 189c of the Treaty ⁽³⁾,

(1) Whereas Council Directive 82/501/EEC of 24 June 1982 on the major-accident hazards of certain industrial activities ⁽⁴⁾ is concerned with the prevention of major accidents which might result from certain industrial activities and with the limitation of their consequences for man and the environment;

(2) Whereas the objectives and principles of the Community's environment policy, as set out in Article 130r (1) and (2) of the Treaty and detailed in the European Community's action programmes on the environment ⁽⁵⁾, aim, in particular, at preserving and protecting the quality of the environment, and protecting human health, through preventive action;

(3) Whereas the Council and the representatives of the Governments of the Member States, meeting within the Council, in their accompanying resolution concerning the fourth Action Programme on the Environment ⁽⁶⁾, highlighted the need for more effective implementation of Directive 82/501/EEC and called for a review of the Directive to include, if necessary, a possible widening of its scope and a greater exchange of information on the matter between Member States; whereas the fifth Action Programme, the general approach of which was approved by the Council and the representatives of the Governments of the Member States, meeting within the Council, in their resolution of 1 February 1993 ⁽⁷⁾, also presses for better risk-and-accident management;

(4) Whereas, in the light of the accidents at Bhopal and Mexico City, which demonstrated the hazard which arises when dangerous sites and dwellings are close together, the Council Resolution of 16 October 1989 called on the Commission to include in Directive 82/501/EEC provisions concerning controls on land-use planning when new installations are authorized and when urban development takes place around existing installations;

(5) Whereas the said Council resolution invited the Commission to work with Member States towards greater mutual understanding and harmonization of national principles and practices regarding safety reports;

(6) Whereas it is desirable to pool the experience gained through different approaches to the control of major-accident hazards; whereas the Commission and the Member States should develop their relations with the relevant international bodies and seek to establish measures equivalent to those set out in this Directive for use in third countries;

(7) Whereas the Convention on the Transboundary Effects of Industrial Accidents of the United Nations Economic Commission for Europe provides for measures regarding the prevention of, preparedness for and response to industrial accidents capable of causing transboundary effects as well as for international cooperation in this field;

(8) Whereas Directive 82/501/EEC constituted a first stage in the harmonization process; whereas the said Directive should be revised and supplemented in order to ensure high levels of protection throughout the Community in a consistent and efficient manner; whereas the present harmonization is limited to the measures which are necessary to put in place a more effective system for preventing major accidents with widespread effects and for limiting their consequences;

(9) Whereas major accidents can have consequences beyond frontiers; whereas the ecological and economic cost of an accident is borne not only by

⁽¹⁾ OJ No C 106, 14. 4. 1994, p. 4 and OJ No C 238, 13. 9. 1995, p. 4.

⁽²⁾ OJ No C 295, 22. 10. 1994, p. 83.

⁽³⁾ Opinion of the European Parliament of 16 February 1995 (OJ No C 56, 6. 3. 1995, p. 80); Council common position of 19 March 1996 (OJ No C 120, 24. 4. 1996, p. 20) and Decision of the European Parliament of 15 July 1996 (OJ No C 261, 9. 9. 1996, p. 24).

⁽⁴⁾ OJ No L 230, 5. 8. 1982, p. 1. Directive as last amended by Directive 91/692/EEC (OJ No L 377, 31. 12. 1991, p. 48).

⁽⁵⁾ OJ No C 112, 20. 12. 1973, p. 1.

⁽⁶⁾ OJ No C 139, 13. 6. 1977, p. 1.

⁽⁷⁾ OJ No C 46, 17. 2. 1983, p. 1.

⁽⁸⁾ OJ No C 70, 18. 3. 1987, p. 1.

⁽⁹⁾ OJ No C 138, 17. 5. 1993, p. 1.

⁽¹⁰⁾ OJ No C 328, 7. 12. 1987, p. 3.

⁽¹¹⁾ OJ No C 138, 17. 5. 1993.

the establishment affected but also by the Member States concerned; whereas it is therefore necessary to take measures ensuring a high level of protection throughout the Community;

munity level the essential requirements with which the systems for inspection established by the Member States must comply;

(10) Whereas the provisions of this Directive must apply without prejudice to Community provisions as regards health and safety at work;

(11) Whereas use of a list specifying certain installations while excluding others with identical hazards is not an appropriate practice, and may allow potential sources of major accidents to escape regulation; whereas the scope of Directive 82/501/EEC must be altered to make the provisions applicable to all establishments where dangerous substances are present in sufficiently large quantities to create a major-accident hazard;

(12) Whereas, with due regard for the Treaty and in compliance with the relevant Community legislation, Member States may retain or adopt appropriate measures for transport-related activities at docks, wharves and marshalling yards, which are excluded from this Directive, in order to ensure a level of safety equivalent to that established by this Directive;

(13) Whereas the transmission of dangerous substances through pipelines also has a potential to produce major accidents; whereas the Commission should, after collecting and evaluating information about existing mechanisms within the Community for regulating such activities and the occurrence of relevant incidents, prepare a communication setting out the case, and most appropriate instrument, for action in this area if necessary;

(14) Whereas, with due regard for the Treaty and in compliance with the relevant Community legislation, Member States may retain or adopt measures on waste land-fill, which do not come within the scope of this Directive;

(15) Whereas analysis of the major accidents reported in the Community indicates that the majority of them are the result of managerial and/or organizational shortcomings; whereas it is therefore necessary to lay down at Community level basic principles for management systems, which must be suitable for preventing and controlling major-accident hazards and limiting the consequences thereof;

(16) Whereas differences in the arrangements for the inspection of establishments by the competent authorities may give rise to differing levels of protection; whereas it is necessary to lay down at Com-

(17) Whereas, in order to demonstrate that all that is necessary has been done to prevent major accidents, to prepare contingency plans and response measures, the operator should, in the case of establishments where dangerous substances are present in significant quantities, provide the competent authority with information in the form of a safety report containing details of the establishment, the dangerous substances present, the installation or storage facilities, possible major accidents and the management systems available, in order to prevent and reduce the risk of major accidents and to enable the necessary steps to be taken to limit the consequences thereof;

(18) Whereas, in order to reduce the risk of domino effects, where establishments are sited in such a way or so close together as to increase the probability and possibility of major accidents, or aggravate their consequences, there should be provision for the exchange of appropriate information and cooperation on public information;

(19) Whereas, in order to promote access to information on the environment, the public should have access to safety reports produced by operators, and persons likely to be affected by a major accident should be given information sufficient to inform them of the correct action to be taken in that event;

(20) Whereas, in order to provide against emergencies, in the case of establishments where dangerous substances are present in significant quantities it is necessary to establish external and internal emergency plans and to create systems to ensure those plans are tested and revised as necessary and implemented in the event of a major accident or the likelihood thereof;

(21) Whereas the staff of an establishment must be consulted on the internal emergency plan and the public must be consulted on the external emergency plan;

(22) Whereas, in order to provide greater protection for residential areas, areas of substantial public use and areas of particular natural interest or sensitivity, it is necessary for land-use and/or other relevant policies applied in the Member States to take account of the need, in the long term, to keep a suitable distance between such areas and establishments presenting such hazards and, where existing establishments are concerned, to take account of additional technical measures so that the risk to persons is not increased;

(23) Whereas, in order to ensure that adequate response measures are taken if a major accident occurs, the operator must immediately inform the competent authorities and communicate the information necessary for them to assess the impact of that accident;

(24) Whereas, in order to provide for an information exchange and to prevent future accidents of a similar nature, Member States should forward information to the Commission regarding major accidents occurring in their territory, so that the Commission can analyze the hazards involved, and operate a system for the distribution of information concerning, in particular, major accidents and the lessons learned from them; whereas this information exchange should also cover 'near misses' which Member States regard as being of particular technical interest for preventing major accidents and limiting their consequences,

HAS ADOPTED THIS DIRECTIVE:

Article 1

Aim

This Directive is aimed at the prevention of major accidents which involve dangerous substances, and the limitation of their consequences for man and the environment, with a view to ensuring high levels of protection throughout the Community in a consistent and effective manner.

Article 2

Scope

1. The Directive shall apply to establishments where dangerous substances are present in quantities equal to or in excess of the quantities listed in Annex I, Parts 1 and 2, column 2, with the exception of Articles 9, 11 and 13 which shall apply to any establishment where dangerous substances are present in quantities equal to or in excess of the quantities listed in Annex I, Parts 1 and 2, column 3.

For the purposes of this Directive, the 'presence of dangerous substances' shall mean the actual or anticipated presence of such substances in the establishment, or the presence of those which it is believed may be generated during loss of control of an industrial chemical process, in quantities equal to or in excess of the thresholds in Parts 1 and 2 of Annex I.

2. The provisions of this Directive shall apply without prejudice to Community provisions concerning the working environment, and, in particular, without prejudice to Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work⁽¹⁾.

(¹) OJ No L 183, 29. 6. 1989, p. 1.

Article 3

Definitions

For the purposes of this Directive:

1. 'establishment' shall mean the whole area under the control of an operator where dangerous substances are present in one or more installations, including common or related infrastructures or activities;
2. 'installation' shall mean a technical unit within an establishment in which dangerous substances are produced, used, handled or stored. It shall include all the equipment, structures, pipework, machinery, tools, private railway sidings, docks, unloading quays serving the installation, jetties, warehouses or similar structures, floating or otherwise, necessary for the operation of the installation;
3. 'operator' shall mean any individual or corporate body who operates or holds an establishment or installation or, if provided for by national legislation, has been given decisive economic power in the technical operation thereof;
4. 'dangerous substance' shall mean a substance, mixture or preparation listed in Annex 1, Part 1, or fulfilling the criteria laid down in Annex 1, Part 2, and present as a raw material, product, by-product, residue or intermediate, including those substances which it is reasonable to suppose may be generated in the event of accident;
5. 'major accident' shall mean an occurrence such as a major emission, fire, or explosion resulting from uncontrolled developments in the course of the operation of any establishment covered by this Directive, and leading to serious danger to human health and/or the environment, immediate or delayed, inside or outside the establishment, and involving one or more dangerous substances;
6. 'hazard' shall mean the intrinsic property of a dangerous substance or physical situation, with a potential for creating damage to human health and/or the environment;
7. 'risk' shall mean the likelihood of a specific effect occurring within a specified period or in specified circumstances;
8. 'storage' shall mean the presence of a quantity of dangerous substances for the purposes of warehousing, depositing in safe custody or keeping in stock.

Article 4

Exclusions

This Directive shall not apply to the following:

- (a) military establishments, installations or storage facilities;
- (b) hazards created by ionizing radiation;

- (c) the transport of dangerous substances and intermediate temporary storage by road, rail, internal waterways, sea or air, outside the establishments covered by this Directive, including loading and unloading and transport to and from another means of transport at docks, wharves or marshalling yards;
- (d) the transport of dangerous substances in pipelines, including pumping stations, outside establishments covered by this Directive;
- (e) the activities of the extractive industries concerned with exploration for, and the exploitation of, minerals in mines and quarries or by means of boreholes;
- (f) waste land-fill sites.
- (e) the quantity and physical form of the dangerous substance or substances involved;
- (f) the activity or proposed activity of the installation or storage facility;
- (g) the immediate environment of the establishment (elements liable to cause a major accident or to aggravate the consequences thereof).

Article 5

General obligations of the operator

1. Member States shall ensure that the operator is obliged to take all measures necessary to prevent major accidents and to limit their consequences for man and the environment.
2. Member States shall ensure that the operator is required to prove to the competent authority referred to in Article 16, hereinafter referred to as the 'competent authority', at any time, in particular for the purposes of the inspections and controls referred to in Article 18, that he has taken all the measures necessary as specified in this Directive.

Article 6

Notification

1. Member States shall require the operator to send the competent authority a notification within the following time-limits:
 - for new establishments, a reasonable period of time prior to the start of construction or operation,
 - for existing establishments, one year from the date laid down in Article 24 (1).
2. The notification required by paragraph 1 shall contain the following details:
 - (a) the name or trade name of the operator and the full address of the establishment concerned;
 - (b) the registered place of business of the operator, with the full address;
 - (c) the name or position of the person in charge of the establishment, if different from (a);
 - (d) information sufficient to identify the dangerous substances or category of substances involved;

3. In the case of existing establishments for which the operator has already provided all the information under paragraph 2 to the competent authority under the requirements of national law at the date of entry into force of this Directive, notification under paragraph 1 is not required.

4. In the event of:

- any significant increase in the quantity or significant change in the nature or physical form of the dangerous substance present, as indicated in the notification provided by the operator pursuant to paragraph 2, or any change in the processes employing it, or
- permanent closure of the installation,

the operator shall immediately inform the competent authority of the change in the situation.

Article 7

Major-accident prevention policy

1. Member States shall require the operator to draw up a document setting out his major-accident prevention policy and to ensure that it is properly implemented. The major-accident prevention policy established by the operator shall be designed to guarantee a high level of protection for man and the environment by appropriate means, structures and management systems.
2. The document must take account of the principles contained in Annex III and be made available to the competent authorities for the purposes of, amongst other things, implementation of Articles 5 (2) and 18.
3. This Article shall not apply to the establishments referred to in Article 9.

Article 8

Domino effect

1. Member States shall ensure that the competent authority, using the information received from the operators in compliance with Articles 6 and 9, identifies establishments or groups of establishments where the likelihood and the possibility or consequences of a major accident may be increased because of the location and the proximity of such establishments, and their inventories of dangerous substances.

2. Member States must ensure that in the case of the establishments thus identified:

- (a) suitable information is exchanged in an appropriate manner to enable these establishments to take account of the nature and extent of the overall hazard of a major accident in their major accident prevention policies, safety management systems, safety reports and internal emergency plans;
- (b) provision is made for cooperation in informing the public and in supplying information to the competent authority for the preparation of external emergency plans.

Article 9

Safety report

1. Member States shall require the operator to produce a safety report for the purposes of:

- (a) demonstrating that a major-accident prevention policy and a safety management system for implementing it have been put into effect in accordance with the information set out in Annex III;
- (b) demonstrating that major-accident hazards have been identified and that the necessary measures have been taken to prevent such accidents and to limit their consequences for man and the environment;
- (c) demonstrating that adequate safety and reliability have been incorporated into the design, construction, operation and maintenance of any installation, storage facility, equipment and infrastructure connected with its operation which are linked to major-accident hazards inside the establishment;
- (b) demonstrating that internal emergency plans have been drawn up and supplying information to enable the external plan to be drawn up in order to take the necessary measures in the event of a major accident;
- (e) providing sufficient information to the competent authorities to enable decisions to be made in terms of the siting of new activities or developments around existing establishments.

2. The safety report shall contain at least the data and information listed in Annex II. It shall also contain an updated inventory of the dangerous substances present in the establishment.

Safety reports, or parts of reports, or any other equivalent reports produced in response to other legislation, may be combined to form a single safety report for the purposes of this Article, where such a format obviates the unnecessary duplication of information and the repetition of work by the operator or competent authority, on condition that all the requirements of this Article are complied with.

3. The safety report provided for in paragraph 1 shall be sent to the competent authority within the following time limits:

- for new establishments, a reasonable period of time prior to the start of construction or of operation,
- for existing establishments not previously covered by Directive 82/501/EEC, three years from the date laid down in Article 24 (1),
- for other establishments, two years from the date laid down in Article 24 (1),
- in the case of the periodic reviews provided for in paragraph 5, without delay.

4. Before the operator commences construction or operation, or in the cases referred to in the second, third and fourth indents of paragraph 3, the competent authority shall within a reasonable period of receipt of the report:

- communicate the conclusions of its examination of the safety report to the operator, if necessary after requesting further information, or
- prohibit the bringing into use, or the continued use, of the establishment concerned, in accordance with the powers and procedures laid down in Article 17.

5. The safety report shall be periodically reviewed and where necessary updated:

- at least every five years,
- at any other time at the initiative of the operator or the request of the competent authority, where justified by new facts or to take account of new technical knowledge about safety matters, for example arising from analysis of accidents or, as far as possible, 'near misses', and of developments in knowledge concerning the assessment of hazards.

6. (a) Where it is demonstrated to the satisfaction of the competent authority that particular substances present at the establishment, or any part thereof, are in a state incapable of creating a major-accident hazard, then the Member State may, in accordance with the criteria referred to in subparagraph (b), limit the information required in safety reports to those matters which are relevant to the prevention of residual major-accident hazards and the limitation of their consequences for man and the environment.

(b) Before this Directive is brought into application, the Commission, acting in accordance with the procedure laid down in Article 16 of Directive 82/501/EEC, shall establish harmonized criteria for the decision by the competent authority that an establishment is in a state incapable of creating a major accident hazard within the meaning of subparagraph (a). Subparagraph (a) shall not be applicable until those criteria have been established.

- (c) Member States shall ensure that the competent authority communicates a list of the establishments concerned to the Commission, giving reasons. The Commission shall forward the lists annually to the Committee referred to in Article 22.

Article 10

Modification of an installation, an establishment or a storage facility

In the event of the modification of an installation, establishment, storage facility, or process or of the nature or quantity of dangerous substances which could have significant repercussions on major-accident hazards, the Member States shall ensure that the operator:

- reviews and where necessary revises the major-accident prevention policy, and the management systems and procedures referred to in Articles 7 and 9,
- reviews, and where necessary revises, the safety report and informs the competent authority referred to in Article 16 of the details of such revision in advance of such modification.

Article 11

Emergency plans

1. Member States shall ensure that, for all establishments to which Article 9 applies:
 - (a) the operator draws up an internal emergency plan for the measures to be taken inside the establishment,
 - for new establishments, prior to commencing operation,
 - for existing establishments not previously covered by Directive 82/501/EEC, three years from the date laid down in Article 24 (1),
 - for other establishments, two years from the date laid down in Article 24 (1);
 - (b) the operator supplies to the competent authorities, to enable the latter to draw up external emergency plans, the necessary information within the following periods of time:
 - for new establishments, prior to the start of operation,
 - for existing establishments not previously covered by Directive 82/501/EEC, three years from the date laid down in Article 24 (1),
 - for other establishments, two years from the date laid down in Article 24 (1);
 - (c) the authorities designated for that purpose by the Member State draw up an external emergency plan for the measures to be taken outside the establishment.

2. The emergency plans must be established with the objectives of:
 - containing and controlling incidents so as to minimize the effects, and to limit damage to man, the environment and property,
 - implementing the measures necessary to protect man and the environment from the effects of major accidents,
 - communicating the necessary information to the public and to the services or authorities concerned in the area,
 - providing for the restoration and clean-up of the environment following a major accident.

Emergency plans shall contain the information set out in Annex IV.

3. Without prejudice to the obligations of the competent authorities, Member States shall ensure that the internal emergency plans provided for in this Directive are drawn up in consultation with personnel employed inside the establishment and that the public is consulted on external emergency plans.

4. Member States shall ensure that internal and external emergency plans are reviewed, tested, and where necessary revised and updated by the operators and designated authorities at suitable intervals of no longer than three years. The review shall take into account changes occurring in the establishments concerned or within the emergency services concerned, new technical knowledge, and knowledge concerning the response to major accidents.

5. Member States shall ensure that emergency plans are put into effect without delay by the operator and, if necessary by the competent authority designated for this purpose:

- when a major accident occurs, or
- when an uncontrolled event occurs which by its nature could reasonably be expected to lead to a major accident.

6. The competent authority may decide, giving reasons for its decision, in view of the information contained in the safety report, that the requirement to produce an external emergency plan under paragraph 1 shall not apply.

Article 12

Land-use planning

1. Member States shall ensure that the objectives of preventing major accidents and limiting the consequences of such accidents are taken into account in their land-use policies and/or other relevant policies. They shall pursue those objectives through controls on:

- (a) the siting of new establishments,
- (b) modifications to existing establishments covered by Article 10,
- (c) new developments such as transport links, locations frequented by the public and residential areas in the vicinity of existing establishments, where the siting or developments are such as to increase the risk or consequences of a major accident.

Member States shall ensure that their land-use and/or other relevant policies and the procedures for implementing those policies take account of the need, in the long term, to maintain appropriate distances between establishments covered by this Directive and residential areas, areas of public use and areas of particular natural sensitivity or interest, and, in the case of existing establishments, of the need for additional technical measures in accordance with Article 5 so as not to increase the risks to people.

2. Member States shall ensure that all competent authorities and planning authorities responsible for decisions in this area set up appropriate consultation procedures to facilitate implementation of the policies established under paragraph 1. The procedures shall be designed to ensure that technical advice on the risks arising from the establishment is available, either on a case-by-case or on a generic basis, when decisions are taken.

Article 13

Information on safety measures

1. Member States shall ensure that information on safety measures and on the requisite behaviour in the event of an accident is supplied, without their having to request it, to persons liable to be affected by a major accident originating in an establishment covered by Article 9.

The information shall be reviewed every three years and, where necessary, repeated and updated, at least if there is any modification within the meaning of Article 10. It shall also be made permanently available to the public. The maximum period between the repetition of the information to the public shall, in any case, be no longer than five years.

Such information shall contain, at least, the information listed in Annex V.

2. Member States shall, with respect to the possibility of a major accident with transboundary effects originating in an establishment under Article 9, provide sufficient

information to the potentially affected Member States so that all relevant provisions contained in Articles 11, 12 and this Article can be applied, where applicable, by the affected Member State.

3. Where the Member State concerned has decided that an establishment close to the territory of another Member State is incapable of creating a major-accident hazard beyond its boundary for the purposes of Article 11 (6) and is not therefore required to produce an external emergency plan under Article 11 (1), it shall so inform the other Member State.

4. Member States shall ensure that the safety report is made available to the public. The operator may ask the competent authority not to disclose to the public certain parts of the report, for reasons of industrial, commercial or personal confidentiality, public security or national defence. In such cases, on the approval of the competent authority, the operator shall supply to the authority, and make available to the public, an amended report excluding those matters.

5. Member States shall ensure that the public is able to give its opinion in the following cases:

- planning for new establishments covered by Article 9,
- modifications to existing establishments under Article 10, where such modifications are subject to obligations provided for in this Directive as to planning,
- developments around such existing establishments.

6. In the case of establishments subject to the provisions of Article 9, Member States shall ensure that the inventory of dangerous substances provided for in Article 9 (2) is made available to the public.

Article 14

Information to be supplied by the operator following a major accident

1. Member States shall ensure that, as soon as practicable following a major accident, the operator shall be required, using the most appropriate means:

- (a) to inform the competent authorities;
- (b) to provide them with the following information as soon as it becomes available:
 - the circumstances of the accident,
 - the dangerous substances involved,
 - the data available for assessing the effects of the accident on man and the environment, and
 - the emergency measures taken;

- (c) to inform them of the steps envisaged:
 - to alleviate the medium- and long-term effects of the accident,
 - to prevent any recurrence of such an accident;
 - (d) to update the information provided if further investigation reveals additional facts which alter that information or the conclusions drawn.
2. Member States shall require the competent authority:
- (a) to ensure that any urgent, medium- and long-term measures which may prove necessary are taken;
 - (b) to collect, by inspection, investigation or other appropriate means, the information necessary for a full analysis of the technical, organizational and managerial aspects of the major accident;
 - (c) to take appropriate action to ensure that the operator takes any necessary remedial measures; and
 - (d) to make recommendations on future preventive measures.

Article 15

Information to be supplied by the Member States to the Commission

1. For the purpose of prevention and mitigation of major accidents, Member States shall inform the Commission as soon as practicable of major accidents meeting the criteria of Annex VI which have occurred within their territory. They shall provide it with the following details:
 - (a) the Member State, the name and address of the authority responsible for the report;
 - (b) the date, time and place of the major accident, including the full name of the operator and the address of the establishment involved;
 - (c) a brief description of the circumstances of the accident, including the dangerous substances involved, and the immediate effects on man and the environment;
 - (d) a brief description of the emergency measures taken and of the immediate precautions necessary to prevent recurrence.
2. Member States shall, as soon as the information provided for in Article 14 is collected, inform the Commission of the result of their analysis and recommendations using a report form established and kept under review through the procedure referred to in Article 22.

Reporting of this information by Member States may be delayed only to allow for the completion of legal pro-

ceedings where such reporting is liable to affect those proceedings.

3. Member States shall inform the Commission of the name and address of any body which might have relevant information on major accidents and which is able to advise the competent authorities of other Member States which have to intervene in the event of such an accident.

Article 16

Competent authority

Without prejudice to the operator's responsibilities, Member States shall set up or appoint the competent authority or authorities responsible for carrying out the duties laid down in this Directive and, if necessary, bodies to assist the competent authority or authorities at technical level.

Article 17

Prohibition of use

1. Member States shall prohibit the use or bringing into use of any establishment, installation or storage facility, or any part thereof where the measures taken by the operator for the prevention and mitigation of major accidents are seriously deficient.

Member States may prohibit the use or bringing into use of any establishment, installation or storage facility, or any part thereof if the operator has not submitted the notification, reports or other information required by this Directive within the specified period.

2. Member States shall ensure that operators may appeal against a prohibition order by a competent authority under paragraph 1 to an appropriate body determined by national law and procedures.

Article 18

Inspections

1. Member States shall ensure that the competent authorities organize a system of inspections, or other measures of control appropriate to the type of establishment concerned. Those inspections or control measures shall not be dependent upon receipt of the safety report or any other report submitted. Such inspections or other control measures shall be sufficient for a planned and systematic examination of the systems being employed at the establishment, whether of a technical, organizational or managerial nature, so as to ensure in particular:
 - that the operator can demonstrate that he has taken appropriate measures, in connection with the various activities involved in the establishment, to prevent major accidents,

- that the operator can demonstrate that he has provided appropriate means for limiting the consequences of major accidents, on site and off site,
- that the data and information contained in the safety report, or any other report submitted, adequately reflects the conditions in the establishment,
- that information has been supplied to the public pursuant to Article 13 (1).

2. The system of inspection specified in paragraph 1 shall comply with the following conditions:

- (a) there shall be a programme of inspections for all establishments. Unless the competent authority has established a programme of inspections based upon a systematic appraisal of major-accident hazards of the particular establishment concerned, the programme shall entail at least one on-site inspection made by the competent authority every twelve months of each establishment covered by Article 9;
- (b) following each inspection, a report shall be prepared by the competent authority;
- (c) where necessary, every inspection carried out by the competent authority shall be followed up with the management of the establishment, within a reasonable period following the inspection.

3. The competent authority may require the operator to provide any additional information necessary to allow the authority fully to assess the possibility of a major accident and to determine the scope of possible increased probability and/or aggravation of major accidents, to permit the preparation of an external emergency plan, and to take substances into account which, due to their physical form, particular conditions or location, may require additional consideration.

- (c) supply of information to competent authorities on preventive measures;

- (d) provision of information on organizations able to provide advice or relevant information on the occurrence, prevention and mitigation of major accidents.

The register and information system shall contain, at least:

- (a) the information supplied by Member States in compliance with Article 15 (1);
- (b) an analysis of the causes of the accidents;
- (c) the lessons learned from the accidents;
- (d) the preventive measures necessary to prevent a recurrence.

3. Without prejudice to Article 20, access to the register and information system shall be open to government departments of the Member States, industry or trade associations, trade unions, non-governmental organizations in the field of the protection of the environment and other international or research organizations working in the field.

4. Member States shall provide the Commission with a three-yearly report in accordance with the procedure laid down in Council Directive 91/692/EEC of 23 December 1991 standardizing and rationalizing reports on the implementation of certain Directives relating to the environment⁽¹⁾ for establishments covered by Articles 6 and 9. The Commission shall publish a summary of this information every three years.

Article 19

Information system and exchanges

1. Member States and the Commission shall exchange information on the experience acquired with regard to the prevention of major accidents and the limitation of their consequences. This information shall concern, in particular, the functioning of the measures provided for in this Directive.

2. The Commission shall set up and keep at the disposal of Member States a register and information system containing, in particular, details of the major accidents which have occurred within the territory of Member States, for the purpose of:

- (a) the rapid dissemination of the information supplied by Member States pursuant to Article 15 (1) among all competent authorities;
- (b) distribution to competent authorities of an analysis of the causes of major accidents and the lessons learned from them;

Article 20

Confidentiality

1. Member States shall ensure, in the interests of transparency, that the competent authorities are required to make information received pursuant to this Directive available to any natural or legal person who so requests.

Information obtained by the competent authorities or the Commission may, where national provisions so require, be kept confidential if it calls into question:

- the confidentiality of the deliberations of the competent authorities and the Commission,
- the confidentiality of international relations and national defence,
- public security,

⁽¹⁾ OJ No L 377, 31. 12. 1991, p. 48.

- the confidentiality of preliminary investigation proceedings or of current legal proceedings,
 - commercial and industrial secrets, including intellectual property,
 - personal data and/or files,
 - data supplied by a third party if that party asks for them to be kept confidential.
2. This Directive shall not preclude the conclusion by a Member State of agreements with third countries on the exchange of information to which it is privy at internal level.

Article 21

Terms of reference of the Committee

The measures required to adapt the criteria referred to in Article 9 (6) (b) and Annexes II to VI to technical progress and to draw up the report form referred to in Article 15 (2) shall be adopted in accordance with the procedure laid down in Article 22.

Article 22

Committee

The Commission shall be assisted by a committee composed of the representatives of the Member States and chaired by the representative of the Commission.

The representative of the Commission shall submit to the committee a draft of the measures to be taken. The committee shall deliver its opinion on the draft within a time limit which the chairman may lay down according to the urgency of the matter. The opinion shall be delivered by the majority laid down in Article 148 (2) of the Treaty in the case of decisions which the Council is required to adopt on a proposal from the Commission. The votes of the representatives of the Member States within the committee shall be weighted in the manner set out in that Article. The chairman shall not vote.

The Commission shall adopt the measures envisaged if they are in accordance with the opinion of the committee.

If the measures envisaged are not in accordance with the opinion of the committee, or if no opinion is delivered, the Commission shall, without delay, submit to the Council a proposal relating to the measures to be taken. The Council shall act by a qualified majority.

If, on the expiry of a period of three months from the date of referral to the Council, the Council has not acted, the proposed measures shall be adopted by the Commission.

Article 23

Repeal of Directive 82/501/EEC

1. Directive 82/501/EEC shall be repealed 24 months after the entry into force of this Directive.
2. Notifications, emergency plans and information for the public presented or drawn up pursuant to Directive 82/501/EEC shall remain in force until such time as they are replaced under the corresponding provisions of this Directive.

Article 24

Implementation

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive not later than 24 months after its entry into force. They shall forthwith inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such reference on the occasion of their official publication. The methods of making such reference shall be laid down by Member States.

2. Member States shall communicate to the Commission the main provisions of domestic law which they adopt in the field governed by this Directive.

Article 25

Entry into force

This Directive shall enter into force on the 20th day following that of its publication in the *Official Journal of the European Communities*.

Article 26

This Directive is addressed to the Member States.

Done at Brussels, 9 December 1996.

For the Council

The President

B. HOWLIN

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ANNEX I

APPLICATION OF THE DIRECTIVE

INTRODUCTION

1. This Annex applies to the presence of dangerous substances at any establishment within the meaning of Article 3 of this Directive and determines the application of the relevant Articles thereof.
2. Mixtures and preparations shall be treated in the same way as pure substances provided they remain within concentration limits set according to their properties under the relevant Directives given in Part 2, Note 1, or their latest adaptation to technical progress, unless a percentage composition or other description is specifically given.
3. The qualifying quantities set out below relate to each establishment.
4. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere on the site.
5. The rules given in Part 2, Note 4 governing the addition of dangerous substances, or categories of dangerous substances, shall apply where appropriate.

PART 1

Named substances

Where a substance or group of substances listed in Part 1 also falls within a category of Part 2, the qualifying quantities set out in Part 1 must be used.

Column 1	Column 2	Column 3
Dangerous substances	Qualifying quantity (tonnes) for the application of	
	Articles 6 and 7	Article 9
Ammonium nitrate	350	2 500
Ammonium nitrate	1 250	5 000
Arsenic pentoxide, arsenic (V) acid and/or salts	1	2
Arsenic trioxide, arsenious (III) acid and/or salts		0,1
Bromine	20	100
Chlorine	10	25
Nickel compounds in inhalable powder form (nickel monoxide, nickel dioxide, nickel sulphide, trinickel disulphide, dinickel trioxide)		1
Ethyleneimine	10	20
Fluorine	10	20
Formaldehyde (concentration \geq 90 %)	5	50
Hydrogen	5	50
Hydrogen chloride (liquefied gas)	25	250
Lead alkyls	5	50
Liquefied extremely flammable gases (including LPG) and natural gas	50	200
Acetylene	5	50
Ethylene oxide	5	50
Propylene oxide	5	50
Methanol	500	5 000
4, 4-Methylenebis (2-chloraniline) and/or salts, in powder form		0,01

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Column 1	Column 2	Column 3
Dangerous substances	Qualifying quantity (tonnes) for the application of	
	Articles 6 and 7	Article 9
Methylisocyanate		0,15
Oxygen	200	2 000
Toluene diisocyanate	10	100
Carbonyl dichloride (phosgene)	0,3	0,75
Arsenic trihydride (arsine)	0,2	1
Phosphorus trihydride (phosphine)	0,2	1
Sulphur dichloride	1	1
Sulphur trioxide	15	75
Polychlorodibenzofurans and polychlorodibenzodioxins (including TCDD), calculated in TCDD equivalent		0,001
The following CARCINOGENS: 4-Aminobiphenyl and/or its salts, Benzidine and/or salts, Bis(chloromethyl) ether, Chloromethyl methyl ether, Di- methylcarbamoyl chloride, Dimethylnitrosamine, Hexame- thylphosphoric triamide, 2-Naphthylamine and/or salts, and 1,3 Propanesultone 4-nitrodiphenyl	0,001	0,001
Automotive petrol and other petroleum spirits	5 000	50 000

NOTES

1. Ammonium nitrate (350/2 500)

This applies to ammonium nitrate and ammonium nitrate compounds in which the nitrogen content as a result of the ammonium nitrate is more than 28 % by weight (compounds other than those referred to in Note 2) and to aqueous ammonium nitrate solutions in which the concentration of ammonium nitrate is more than 90 % by weight.

2. Ammonium nitrate (1 250/5 000)

This applies to simple ammonium-nitrate based fertilizers which comply with Directive 80/876/EEC and to composite fertilizers in which the nitrogen content as a result of the ammonium nitrate is more than 28 % in weight (a composite fertilizer contains ammonium nitrate with phosphate and/or potash).

1. Polychlorodibenzofurans and polychlorodibenzodioxins

The quantities of polychlorodibenzofurans and polychlorodibenzodioxins are calculated using the following factors:

International Toxic Equivalent Factors (ITEF) for the congeners of concern (NATO/CCMS)			
2,3,7,8-TCDD	1	2,3,7,8-TCDF	0,1
1,2,3,7,8-PeDD	0,5	2,3,4,7,8-PeCDF	0,5
		1,2,3,7,8-PeCDF	0,05
1,2,3,4,7,8-HxCDD	0,1	1,2,3,4,7,8-HxCDF	0,1
1,2,3,6,7,8-HxCDD		1,2,3,7,8,9-HxCDF	
1,2,3,7,8,9-HxCDD		1,2,3,6,7,8-HxCDF	
1,2,3,4,6,7,8-HpCDD	0,01	2,3,4,6,7,8-HxCDF	
OCDD	0,001	1,2,3,4,6,7,8-HpCDF	0,01
		1,2,3,4,7,8,9-HpCDF	
		OCDF	0,001

(T = tetra, P = penta, Hx = hexa, HP = hepta, O = octa)

PART 2

Categories of substances and preparations not specifically named in Part 1

Column 1	Column 2	Column 3
Categories of dangerous substances	Qualifying quantity (tonnes) of dangerous substances as delivered in Article 3 (4), for the application of	
	Articles 6 and 7	Article 9
1. VERY TOXIC	5	20
2. TOXIC	50	200
3. OXIDIZING	50	200
4. EXPLOSIVE (where the substance or preparation falls within the definition given in Note 2 (a))	50	200
5. EXPLOSIVE (where the substance or preparation falls within the definition given in Note 2 (b))	10	50
6. FLAMMABLE (where the substance or preparation falls within the definition given in Note 3 (a))	5 000	50 000
7 a. HIGHLY FLAMMABLE (where the substance or preparation falls within the definition given in Note 3 (b) (1))	50	200
7 b. HIGHLY FLAMMABLE liquids (where the substance or preparation falls within the definition given in Note 3 (b) (2))	5 000	50 000
8. EXTREMELY FLAMMABLE (where the substance or preparation falls within the definition given in Note 3 (c))	10	50
9. DANGEROUS FOR THE ENVIRONMENT in combination with risk phrases: (i) R50: 'Very toxic to aquatic organisms'	200	500
(ii) R51: 'Toxic to aquatic organisms'; and R53: 'May cause long term adverse effects in the aquatic environment'	500	2 000
10. ANY CLASSIFICATION not covered by those given above in combination with risk phrases: (i) R14: 'Reacts violently with water' (including R14/15)	100	500
(ii) R29: 'in contact with water, liberates toxic gas'	50	200

NOTES

1. Substances and preparations are classified according to the following Directives (as amended) and their current adaptation to technical progress:

— Council Directive 67/548/EEC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances ⁽¹⁾,

— Council Directive 88/379/EEC of 7 June 1988 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations ⁽²⁾,

⁽¹⁾ OJ No 196, 16. 8. 1967, p. 1. Directive as last amended by Directive 93/105/EC (OJ No L 294, 30. 11. 1993, p. 21).

⁽²⁾ OJ No L 187, 16. 7. 1988, p. 14.

— Council Directive 78/631/EEC of 26 June 1978 on the approximation of the laws of the Member States relating to the classification, packaging and labelling of dangerous preparations (pesticides) ⁽¹⁾.

In the case of substances and preparations which are not classified as dangerous according to any of the above Directives but which nevertheless are present, or are likely to be present, in an establishment and which possess or are likely to possess, under the conditions found at the establishment, equivalent properties in terms of major-accident potential, the procedures for provisional classification shall be followed according to the relevant Article of the appropriate Directive.

In the case of substances and preparations with properties giving rise to more than one classification, for the purposes of this Directive the lowest thresholds shall apply.

For the purposes of this Directive, a list providing information on substances and preparations shall be established, kept up to date and approved by the procedure set up under Article 22.

2. An 'explosive' means:

- (a) (i) a substance or preparation which creates the risk of an explosion by shock, friction, fire or other sources of ignition (risk phrase R 2),
- (ii) a pyrotechnic substance is a substance (or mixture of substances) designed to produce heat, light, sound, gas or smoke or a combination of such effects through non-detonating self-sustained exothermic chemical reactions, or
- (iii) an explosive or pyrotechnic substance or preparation contained in objects;
- (b) a substance or preparation which creates extreme risks of explosion by shock, friction, fire or other sources of ignition (risk phrase R 3).

3. 'Flammable', 'highly flammable', and 'extremely flammable' in categories 6, 7 and 8 mean:

(a) flammable liquids:

substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C (risk phrase R 10), supporting combustion;

(b) highly flammable liquids:

- 1. — substances and preparations which may become hot and finally catch fire in contact with air at ambient temperature without any input of energy (risk phrase R 17),
- substances which have a flash point lower than 55 °C and which remain liquid under pressure, where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards;

2. substances and preparations having a flash point lower than 21 °C and which are not extremely flammable (risk phrase R 11, second indent);

(c) extremely flammable gases and liquids:

- 1. liquid substances and preparations which have a flash point lower than 0 °C and the boiling point (or, in the case of a boiling range, the initial boiling point) of which at normal pressure is less than or equal to 35 °C (risk phrase R 12, first indent), and
- 2. gaseous substances and preparations which are flammable in contact with air at ambient temperature and pressure (risk phrase R 12, second indent), whether or not kept in the gaseous or liquid state under pressure, excluding liquefied extremely flammable gases (including LPG) and natural gas referred to in Part 1, and
- 3. liquid substances and preparations maintained at a temperature above their boiling point.

4. The addition of dangerous substances to determine the quantity present at an establishment shall be carried out according to the following rule:

if the sum

$$q_1/Q + q_2/Q + q_3/Q + q_4/Q + q_5/Q + \dots > 1$$

⁽¹⁾ OJ No L 206, 29. 7. 1978, p. 13. Directive as last amended by Directive 92/32/EEC (OJ No L 154, 5. 6. 1992, p. 1).

where q_x = the quantity of dangerous substances x (or category of dangerous substances) falling within Parts 1 or 2 of this Annex,

Q = the relevant threshold quantity from Parts 1 or 2,

then the establishment is covered by the relevant requirements of this Directive.

This rule will apply for the following circumstances:

- (a) for substances and preparations appearing in Part 1 at quantities less than their individual qualifying quantity present with substances having the same classification from Part 2, and the addition of substances and preparations with the same classification from Part 2;
- (b) for the addition of categories 1, 2 and 9 present at an establishment together;
- (c) for the addition of categories 3, 4, 5, 6, 7 a, 7 b and 8, present at an establishment together.

ANNEX II

**MINIMUM DATA AND INFORMATION TO BE CONSIDERED IN THE SAFETY REPORT
SPECIFIED IN ARTICLE 9**

I. Information on the management system and on the organization of the establishment with a view to major accident prevention

This information shall contain the elements given in Annex III.

II. Presentation of the environment of the establishment

- A. description of the site and its environment including the geographical location, meteorological, geological, hydrographic conditions and, if necessary, its history;
- B. identification of installations and other activities of the establishment which could present a major-accident hazard;
- C. description of areas where a major accident may occur.

III. Description of the installation

- A. description of the main activities and products of the parts of the establishment which are important from the point of view of safety, sources of major-accident risks and conditions under which such a major accident could happen, together with a description of proposed preventive measures;
- B. description of processes, in particular the operating methods;
- C. description of dangerous substances:
 - 1. inventory of dangerous substances including:
 - the identification of dangerous substances: chemical name, CAS number, name according to IUPAC nomenclature,
 - the maximum quantity of dangerous substances present or likely to be present;
 - 2. physical, chemical, toxicological characteristics and indication of the hazards, both immediate and delayed for man and the environment;
 - 3. physical and chemical behaviour under normal conditions of use or under foreseeable accidental conditions.

IV. Identification and accidental risks analysis and prevention methods

- A. detailed description of the possible major-accident scenarios and their probability or the conditions under which they occur including a summary of the events which may play a role in triggering each of these scenarios, the causes being internal or external to the installation;
- B. assessment of the extent and severity of the consequences of identified major accidents;
- C. description of technical parameters and equipment used for the safety of installations.

V. Measures of protection and intervention to limit the consequences of an accident

- A. description of the equipment installed in the plant to limit the consequences of major accidents;
- B. organization of alert and intervention;
- C. description of mobilizable resources, internal or external;
- D. summary of elements described in A, B, and C above necessary for drawing up the internal emergency plan prepared in compliance with Article 11.

ANNEX III

PRINCIPLES REFERRED TO IN ARTICLE 7 AND INFORMATION REFERRED TO IN ARTICLE 9 ON THE MANAGEMENT SYSTEM AND THE ORGANIZATION OF THE ESTABLISHMENT WITH A VIEW TO THE PREVENTION OF MAJOR ACCIDENTS

For the purpose of implementing the operator's major-accident prevention policy and safety management system account shall be taken of the following elements. The requirements laid down in the document referred to in Article 7 should be proportionate to the major-accident hazards presented by the establishment:

- (a) the major accident prevention policy should be established in writing and should include the operator's overall aims and principles of action with respect to the control of major-accident hazards;
- (b) the safety management system should include the part of the general management system which includes the organizational structure, responsibilities, practices, procedures, processes and resources for determining and implementing the major-accident prevention policy;
- (c) the following issues shall be addressed by the safety management system:
 - (i) organization and personnel — the roles and responsibilities of personnel involved in the management of major hazards at all levels in the organization. The identification of training needs of such personnel and the provision of the training so identified. The involvement of employees and, where appropriate, subcontractors;
 - (ii) identification and evaluation of major hazards — adoption and implementation of procedures for systematically identifying major hazards arising from normal and abnormal operation and the assessment of their likelihood and severity;
 - (iii) operational control — adoption and implementation of procedures and instructions for safe operation, including maintenance, of plant, processes, equipment and temporary stoppages;
 - (iv) management of change — adoption and implementation of procedures for planning modifications to, or the design of new installations, processes or storage facilities;
 - (v) planning for emergencies — adoption and implementation of procedures to identify foreseeable emergencies by systematic analysis and to prepare, test and review emergency plans to respond to such emergencies;
 - (vi) monitoring performance — adoption and implementation of procedures for the ongoing assessment of compliance with the objectives set by the operator's major-accident prevention policy and safety management system, and the mechanisms for investigation and taking corrective action in case of non-compliance. The procedures should cover the operator's system for reporting major accidents of near misses, particularly those involving failure of protective measures, and their investigation and follow-up on the basis of lessons learnt;
 - (vii) audit and review — adoption and implementation of procedures for periodic systematic assessment of the major-accident prevention policy and the effectiveness and suitability of the safety management system; the documented review of performance of the policy and safety management system and its updating by senior management.

ANNEX IV

**DATA AND INFORMATION TO BE INCLUDED IN THE EMERGENCY PLANS SPECIFIED
UNDER ARTICLE 11**

1. Internal emergency plans

- (a) Names or positions of persons authorized to set emergency procedures in motion and the person in charge of and coordinating the on-site mitigatory action.
- (b) Name or position of the person with responsibility for liaising with the authority responsible for the external emergency plan.
- (c) For foreseeable conditions or events which could be significant in bringing about a major accident, a description of the action which should be taken to control the conditions or events and to limit their consequences, including a description of the safety equipment and the resources available.
- (d) Arrangements for limiting the risks to persons on site including how warnings are to be given and the actions persons are expected to take on receipt of a warning.
- (e) Arrangements for providing early warning of the incident to the authority responsible for setting the external emergency plan in motion, the type of information which should be contained in an initial warning and the arrangements for the provision of more detailed information as it becomes available.
- (f) Arrangements for training staff in the duties they will be expected to perform, and where necessary coordinating this with off-site emergency services.
- (g) Arrangements for providing assistance with off-site mitigatory action.

2. External emergency plans

- (a) Names or positions of persons authorized to set emergency procedures in motion and of persons authorized to take charge of and coordinate off-site action.
- (b) Arrangements for receiving early warning of incidents, and alert and call-out procedures.
- (c) Arrangements for coordinating resources necessary to implement the external emergency plan.
- (d) Arrangements for providing assistance with on-site mitigatory action.
- (e) Arrangements for off-site mitigatory action.
- (f) Arrangements for providing the public with specific information relating to the accident and the behaviour which it should adopt.
- (g) Arrangements for the provision of information to the emergency services of other Member States in the event of a major accident with possible transboundary consequences.

ANNEX V

ITEMS OF INFORMATION TO BE COMMUNICATED TO THE PUBLIC AS PROVIDED FOR
IN ARTICLE 13 (1)

1. Name of operator and address of the establishment.
2. Identification, by position held, of the person giving the information.
3. Confirmation that the establishment is subject to the regulations and/or administrative provisions implementing this Directive and that the notification referred to in Article 6 (3), or the safety report referred to in Article 9 (1) has been submitted to the competent authority.
4. An explanation in simple terms of the activity or activities undertaken at the establishment.
5. The common names or, in the case of dangerous substances covered by Part 2 of Annex I, the generic names or the general danger classification of the substances and preparations involved at the establishment which could give rise to a major accident, with an indication of their principal dangerous characteristics.
6. General information relating to the nature of the major-accident hazards, including their potential effects on the population and the environment.
7. Adequate information on how the population concerned will be warned and kept informed in the event of a major accident.
8. Adequate information on the actions the population concerned should take, and on the behaviour they should adopt, in the event of a major accident.
9. Confirmation that the operator is required to make adequate arrangements on site, in particular liaison with the emergency services, to deal with major accidents and to minimize their effects.
10. A reference to the external emergency plan drawn up to cope with any off-site effects from an accident. This should include advice to cooperate with any instructions or requests from the emergency services at the time of an accident.
11. Details of where further relevant information can be obtained, subject to the requirements of confidentiality laid down in national legislation.

ANNEX VI

CRITERIA FOR THE NOTIFICATION OF AN ACCIDENT TO THE COMMISSION AS PROVIDED FOR IN ARTICLE 15 (1)

I. Any accident covered by paragraph 1 or having at least one of the consequences described in paragraphs 2, 3, 4 and 5 must be notified to the Commission.

1. Substances involved

Any fire or explosion or accidental discharge of a dangerous substance involving, a quantity of at least 5 % of the qualifying quantity laid down in column 3 of Annex I.

2. Injury to persons and damage to real estate

An accident directly involving a dangerous substance and giving rise to one of the following events:

- a death,
- six persons injured within the establishment and hospitalized for at least 24 hours,
- one person outside the establishment hospitalized for at least 24 hours,
- dwelling(s) outside the establishment damaged and unusable as a result of the accident,
- the evacuation or confinement of persons for more than 2 hours (persons × hours): the value is at least 500,
- the interruption of drinking water, electricity, gas or telephone services for more than 2 hours (persons × hours): the value is at least 1 000.

3. Immediate damage to the environment

- *permanent or long-term damage to terrestrial habitats:*
 - 0,5 ha or more of a habitat of environmental or conservation importance protected by legislation,
 - 10 or more hectares of more widespread habitat, including agricultural land,
- *significant or long-term damage to freshwater and marine habitats(*)*
 - 10 km or more of river or canal,
 - 1 ha or more of a lake or pond,
 - 2 ha or more of delta,
 - 2 ha or more of a coastline or open sea,
- *significant damage to an aquifer or underground water(*)*
 - 1 ha or more.

4. Damage to property

- damage to property in the establishment: at least ECU 2 million,
- damage to property outside the establishment: at least ECU 0,5 million.

5. Cross-border damage

Any accident directly involving a dangerous substance giving rise to effects outside the territory of the Member State concerned.

II. Accidents or 'near misses' which Member States regard as being of particular technical interest for preventing major accidents and limiting their consequences and which do not meet the quantitative criteria above should be notified to the Commission.

(*) In assessing damage, reference could be made where appropriate to Directives 75/440/EEC, 76/464/EEC and Directives adopted for its application in relation to certain substances, namely, Directives 76/160/EEC, 78/659/EEC, 79/923/EEC, or to the Lethal Concentration (LC) for 50 % of the species representative of the environment affected as defined by Directive 92/32/EEC for the criterion 'dangerous for the environment'.